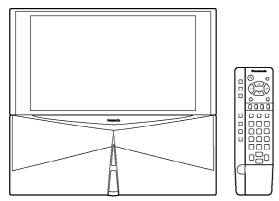
#### **ORDER NO. ITD0308033C3**

# Service Manual

Wide Projection Television
TX-47P800HQ / TX-47P800HZ
GP1VP



#### **SPECIFICATIONS**

#### **Specifications**

Power Source AC 220 - 240 V, 50 / 60 Hz
Power Consumption Stand-by condition 0.5 W
Normal viewing 175 W

Dimensions (W × H × D) 1298 mm × 1207.5 mm × 567 mm

Mass (Weight)62 kg (Net)Remote control TransmitterEUR511267

R6 (AA) Battery × 2

**Receiving System** 

	21 Systems	Function
1	PAL B, G, H	Reception of
2	PAL I	broadcast
3	PAL D, K	transmissions
4	SECAM B, G	and Playback
5	SECAM D, K	from Video
6	SECAM K1	Cassette Tape
7	NTSC M (NTSC	Recorders.
	3.58/4.5 MHz)	
6	SECAM K1 NTSC M (NTSC	Cassette Tape

	21 Systems	Function
15	PAL 60 Hz/5.5 MHz	Playback from
16	PAL 60 Hz/6.0 MHz	Special Disc
17	PAL 60 Hz/6.5 MHz	Players and
18	SECAM 60 Hz/5.5 MHz	Special VCR's
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	

	21 Systems	Function
8	NTSC 4.43/5.5 MHz	
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	Dlavibaak fram
11	NTSC 3.58/5.5 MHz	Playback from Special VCR's
12	NTSC 3.58/6.0 MHz	Special VCR'S
13	NTSC 3.58/6.5 MHz	
14	SECAM I	

**Receiving Channels** 

Regular TV

**VHF BAND** 

2-12 (PAL/SECAM B, K1)
0-12 (PAL B AUST.)
1-9 (PAL B N.Z)
1-12 (PAL/SECAM D)
1-12 (NTSC M Japan)

2-13 (NTSC M U.S.A)

**UHF BAND** 

21-69 (PAL G, H, I/SECAM G, K, K1)

28-69 (PAL AUST.) 13-57 (PAL D, K) 13-62 (NTSC M Japan) 14-69 (NTSC M U.S.A)

CATV

S1-S20 (OSCAR) 1-125 (U.S.A CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.)

Receiving Stereo System NICAM I, NICAM B/G, NICAM D, A2 (German)

Tuning System Frequency synthesizer Auto Search Tuning

POSITION: 100 Position DIRECT: 125 Position

Audio Output 40 W [20 W + 20 W] (10 % THD)

Speaker System Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2 + Tweeter (5 cm) × 2

Headphones 3.5 mm Plug x 1

Aerial Impedance 75  $\,\Omega\,$  Unbalanced coaxial

Video / Audio / Component Terminals

AV 1, 2, 3, 4, S Video In Y: 1 V p-p, 75  $\Omega$ 

C: 0.3 V p-p, 75 Ω

DVD (Y/PB/PR)

Video In 1 V p-p, 75  $\Omega$ 

Audio In Approx. 0.5 V 47 K  $\Omega$ 

Monitor Out Video Out 1 V p-p, 75  $\Omega$ 

Audio Out Approx. 0.5 V, 1 K  $\Omega$ 

AV1 IN (Rear): S Video, Video, Audio L/R terminals AV2 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals AV3 IN (Front): S Video, Video, Audio L/R terminals AV4 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals

Applicable signal to AV2, AV4 Y/ PB / PR input terminals: 480i (525i),576i (625i), 480P (525P) and 576P (625P) and

1080i (1125i)/50

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

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#### **MARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# **Panasonic**

## 1. Safety Precautions

#### 1.1. General Guide Lines

- 1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
- 2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.

  If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
- 5. Potential, as high as 30.0kV, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power

supply. Servicing should not be attempted byanyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.

6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

## 1.2. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn on the Projection Monitor's power switch.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a returnpath to the chassis, the reading should be between 4 M  $_{\Omega}$  and 20 M  $_{\Omega}$ . When the exposed metal does not have a return path to the chassis, the reading must be $_{\infty}$ .

## 1.3. Leakage Current Hot Check (See Fig. 1)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a  $2k \Omega$ , 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
- 3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to thecustomer.

Fig. 1

Hot-Check Circuit

AC Voltmeter

To Water Pipe (Earth)

 $2k\Omega$ , 10W

1.4. X-Radiation

#### Warning:

- 1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
- 2. When using a projection tube test jig for service, ensure that jig is capable of handling 30.0kV without causing X-Radiation.

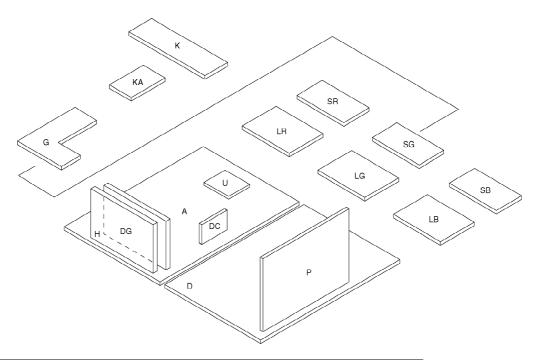
#### Note:

It is important use an accurate periodically calibrated high voltage meter.

Exposed Metallic Parts

- 1. Set the brightness to minimum.
- 2. Set the service switch to the service position.
- 3. Measure the High Voltage. The meter reading should indicate 30.0 ± 1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

## 2. Chassis Board Layout

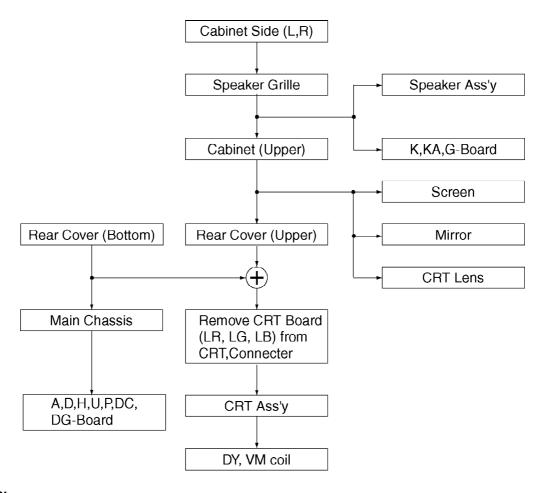


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
SR-Board	VM Output (R)
SG-Board	VM Output (G)
SB-Board	VM Output (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terninal
K-Board	Power Switch
KA-Board	Blue light

# 3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

## 3.1. Disassembly Flowchart

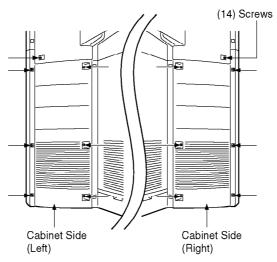


#### Note:

Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

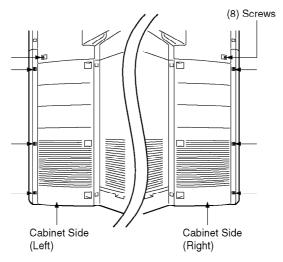
## 3.2. Cabinet Side (L, R)

# 1. Remove (14) screws.

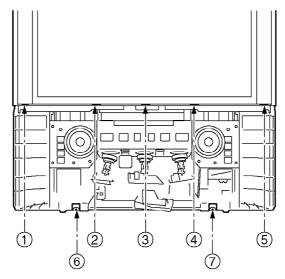


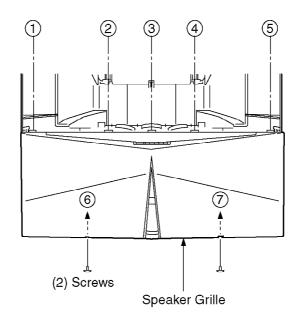
# 3.3. Speaker Grille

# 1. Remove (8) screws.



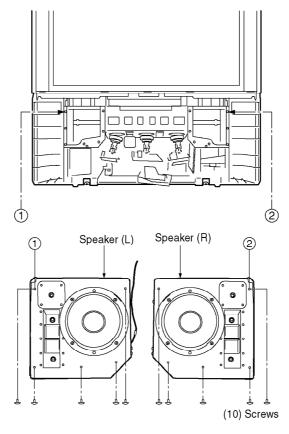
# 2. Remove (2) screws.





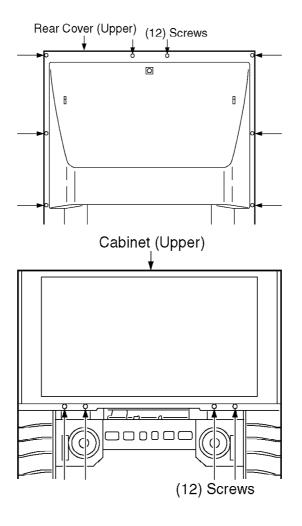
# 3.4. Speaker Ass'y

# 1. Remove (10) screws.



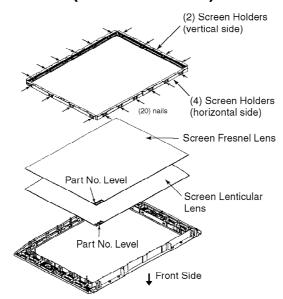
# 3.5. Cabinet (Upper)

1. Remove (12) Screws.



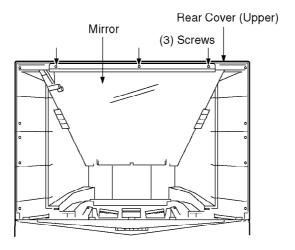
## 3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).



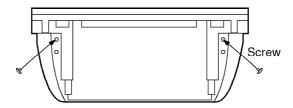
## 3.7. Mirror

## 1. Remove (3) screws.



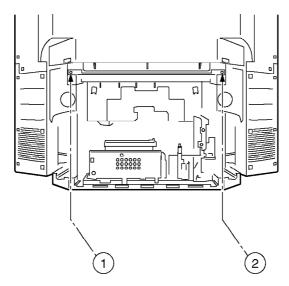
## 3.8. Rear Cover (Upper)

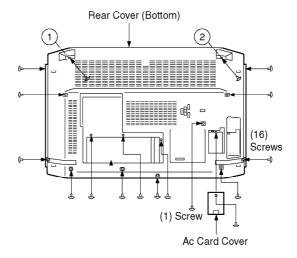
- 1. Remove the Cabinet (Upper).
- 2. Remove (2) screws.



## 3.9. Rear Cover (Bottom)

- 1. Remove (16) screws.
- 2. Remove (1) screw.

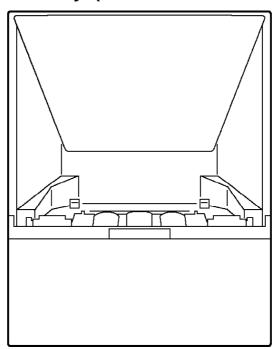




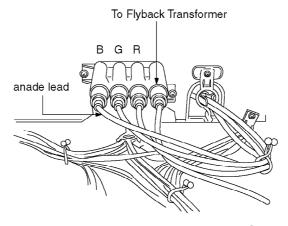
## 3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

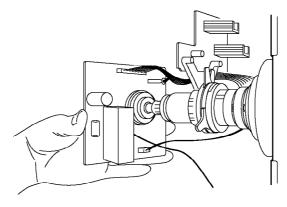
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



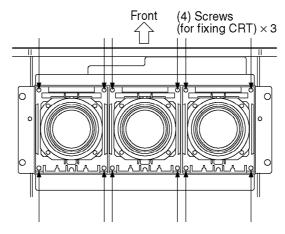
- 2. Unplug the defective CRT Dag ( GND ), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
- 3. Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.



4. Remove the CRT Board from the defective CRT neck.

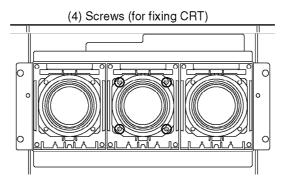


- 5. Note position of yoke with centering tabs and remove from defective CRT.
- 6. From the Top, remove (2) screws from the defective CRT.

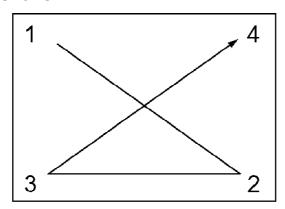


- 7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
- 8. Wire the anode lead wire.
- 9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.

- 10. Lay CRT face down on a soft cloth.
- 11. Remove CRT lens by removing (4) screws.



- 12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
- 13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
- 14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



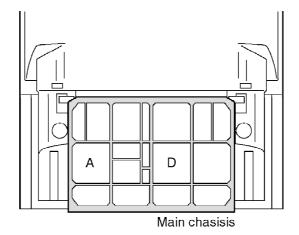
Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

## 4. Service Hints

- 4.1. Service position for Main chassis
- 1. Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.
- 2. Remove lead wires and bundles from holders as necessary.

3. Pull out main chassis and stand it.

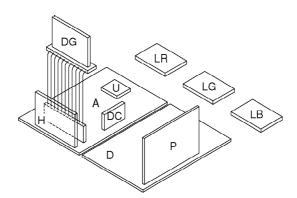


4.2. Service Position for DG-Board

- 1. Remove the each circuit board from A or D-Board.
- 2. Connect extension cables between individual circuit board and A or D-Board.

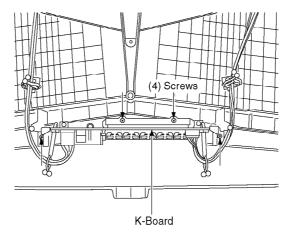
Note:

Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



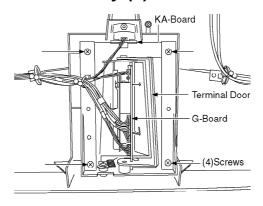
#### 4.3. Service Position for K-Board

- 1. Remove the Speaker Grille.
- 2. Remove the K-Board by (4) screws.

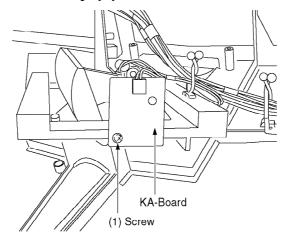


## 4.4. Service Position for KA-Board

- 1. Remove the Speaker Grille.
- 2. Remove the Terminal Door by (4) screws.

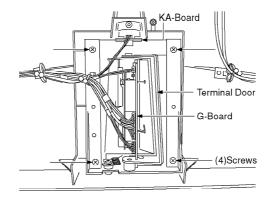


3. Remove the KA-Board by (1) screws.

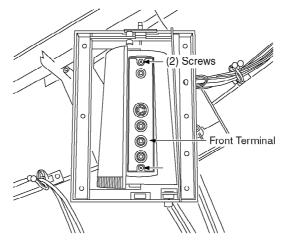


## 4.5. Service Position for G-Board

- 1. Remove the Speaker Grille.
- 2. Remove the Terminal Door by (4) screws.

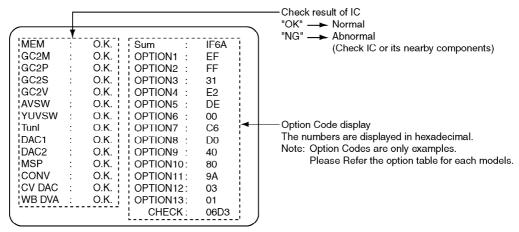


3. Remove the G-Board by (2) screws.



## 5. Self Check

- 1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
- 2. To get into the Self -Check mode press the down ( $-/\vee$ ) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and thescreen will show:



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
YUVSW	IC3004	YUV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

## 6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

#### 6.1. How to enter SERVICE 1

- 1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
- 2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [ ] on the TV set.

## 6.2. How to enter SERVICE 2

- 1. Set the channel to CH99.
- 2. Press HOLD button on remote control.

#### Note:

# To exit to Service mode, press N or Power button on remote control.

SERVICE 1		→ Press the RED/GREEN button to	
Function	Average Data		
H-Pos	438	step up/down thrpugh the function	
V-Pos	132	Press the YELLOW/BLUE button to	to change
H-Amp	36	the function values.	
V-Amp	74	<ul> <li>Press the STR button after each a</li> </ul>	adjustment
Parabola	76	has been mode to store the requir	red values.
Trapezoid	131	<u> </u>	
H-Parallel	8		
V-Linear	138		
Top-Corner	177		
Bottom-Corner	177		
V-S-Correct	60	_	
C-Correct	7	_	
IVBL C	115	_	
G-LIMIT	197	-	
B-LIMIT	183	-	
WB-B-G-ST1	175	-	
R High(Drive)	0083	4	
G High(Drive)	0083	4	
B High(Drive)	0122	-	
R Low(Cut off)	0630		
G Low(Cut off)	0630	-	
B Low(Cut off)	0640	_	
Sub-Bright	138	_	
	133	_	
Sub-Contrast Sub-Colour	24		
Sub-NTSC Tint	-1	_	
SECAM B-Y	192	-	
SECAM R-Y	70	_	
Sub-NTSC Tint2	129	_	
Sub-N13C TITL2 Sub-SECAM B-Y	192	-	
Sub SECAM R-Y	70	-	
		4	
Video Gain 2	20	4	
SDRAM-F	-1		
DAF-H-PARA	322	4	
DAF V-SAW	9		
DAF V-PARA	19		
Coarse Convergence	Access		
Fine Convergence	Access		
99	CH99		
: []	+		
outton   IN	DEX button		
SERVICE 2			
Function		Function	
Y/C Delay	04	OPTION 8	
OPTION 1	FF	OPTION 9	
OPTION 2	FF	OPTION 10	
OPTION 3	23	OPTION 11	- 1
OPTION 4	E2	OPTION 12	ı
OPTION 5	DE	OPTION 13	ı
OPTION 6	01	Hours	00
OPTION 7	46		

## **6.3. Option Descrition**

Optio	ns	HQ	HZ		ASIA
option1		4F	4F		
0E0	b0	1	1	Colour system	Auto (1)
	b1	1	1	,	SECAM (1)
	b2	1	1		NTSC (1)
	b3	1	1		M.NTSC (1)
	b4	0	0	JPEG (1)	enable (1)
	b5	0	0	BBE (1)	enable (1)
	b6	1	1	BLUE LED (1)	enable (1)
	b7	0	0	YUV-SW (1)	enable (1)
option	12	FF	FF		
0E1	bo	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1		NZ/INDNES (1)
	b2	1	1		AUSTRALIA (1)
	b3	1	1		E.EUROPE (1)
	b4	1	1		SPECIAL (1)
	b5	1	1		AMERICA (1)
	b6	1	1		CATV (1)
	b7	1	1		JAPAN (1)
optior	13	21	21		
0E2	b0	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	VGA	enable (1)
	b3	0	0	AV5	enable (1)
	b4	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0		5.5 / 6.5 (2), 6.0 / 6.5 (3)
option	14	E2	E2		
0E3	b0	0	0	A2 enable	4.5 (1)
	b1	1	1		5.5 (1)
	b2	0	0		6.0 (1)
	b3	0	0		6.5 (1)
	b4	0	0	NICAM enable	4.5 (1)
	b5	1	1		5.5 (1)
	b6	1	1		6.0 (1)
	b7	1	1		6.5 (1)
optior	15	DE	DE		
0E4	b0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	. ,	HK / UK (1)
	b3	1	1		CHINA (1)
	b4	1	1		NZ / INDN (1)
	b5	0	0		AUSTRA (1)
	b6	1	1		E.EURO (1)
	b7	1	1		SPECIAL (1)

Optio	ns	HQ	HZ		ASIA
option6		00	00		
0E5	b0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	SASO enable	SASO enable (1)
	b2	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	free	
	b7	0	0		No motion cotrol in film mode (1)
option	7	C6	C6		
0E6	b0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	Owner ID	enable (1)
option	18	D0	50		(1)
0E7	b0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	Fine tuning	Enable (1)
	b5	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable (1)
option	-	40	40		· · · · · · · · · · · · · · · · · · ·
0E8	b0	0	0	Dolby	Dolby enable (1)
0_0	b1	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	L1PSYNC	L1PSYNC enable (1)
option		80	80	==	
0E9	b0	0	0	OSD language	English *Chinese *Arabia (0), English *Russian (1)
	b1	0	0	ACI all country	not use
	b2	0	0	ACI auto MP	not use
	b3	0	0	ACI offset	not use
	b4	0	0	Blue Back	
	b5	0	0	BC Safety	Reserved
	b6	0	0	Protect XPR	Reserved
	b7		1		
	10/	1	1	Protect 5V detect	Protection input enable (1)

Options Model		HQ	HZ		ASIA
option11		42	42		
0EA	b0	0	0	Acuify Demo	enable (1)
	b1	1	1	Picture Shift	enable (1)
	b2	0	0	Shop mode	enable (1)
	b3	0	0	User aspect Just	enable (1)
	b4	0	0	User aspect 14:9	enable (1)
	b5	0	0	NICAM C4 bit	enable (1)
	b6	1	1	ID-1enable (1)	
	b7	0	0	1080i	enable (1)
option	112	03	01	Area Option	
0EB	b0	1	1	Asia	Asia (1), europe (0)
	b1	1	0	Australia	Australia (1)
	b2	0	0	Ireland	/India India (1)
	b3	0	0	UK not use	
	b4	0	0	MELCOA	MELCOA (1)
	b5	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	LED	enable (1)
	b7	0	0	free	
option	113	01	01	Temporary	
0EC	b0	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	New ALBD	ALBD 14:9 & ZOOM3 disable (1)
	b3	0	0		
	b4	0	0		
	b5	0	0	TEXT refresh for Euro	not use
	b6	0	0		
	b7	0	0		

# 7. CRT Set Up

#### **Caution:**

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

## 7.1. Dynamic Focus Adjustment

- 1. Focus adjustments should be performed after 1 hour of aging.
- 2. Use oscilloscope with 100: 1 probe.
- 3. Apply PAL monoscope pattern.
- 4. Set scan mode to 100Hz.
- 5. Set the picture menu to Dynamic.
- 6. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)

Fig. 2

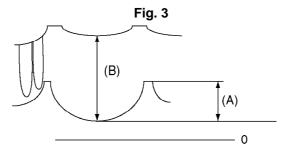
Focus Pack

Screen adj. VR (3)

R G B

Focus adj. VR (3)

- 7. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
- 8. Adjust V-PARA (Service mode1) so that waveform (A) is 260V ± 20V. (Fig. 3)
- 9. Adjust H-PARA (Service mode1) so that waveform (B) is  $560V \pm 40V$ . (Fig. 3)



- 10. Set scan mode to PAL 100V Comp.
- 11. Set the picture menu to Dynamic.
- 12. Adjust V-PARA (Service model) so that waveform (A) is 180V ± 20V. (Fig. 3)
- 13. Adjust H-PARA (Service model) so that waveform (B) is 560V ± 20V. (Fig. 3)
- 14. Set scan mode to Progressive.
- 15. Repeat step 6-9.

- 16. Apply NTSC monoscope pattern.
- 17. Set scan mode to Progressive.
- 18. Repeat step 6-9.
- 19. Set scan mode to 100Hz.
- 20. Repeat step 6-9.
- 21. Apply monoscope pattern of PAL 1080i 50Hz.
- 22. Repeat step 6-9.
- 23. Proceed with Focus Adjustments.

## 7.2. Electrical Focus Adjustment

- 1. Receive a monoscope pattern.
- 2. Cover the Red and Blue CRT, projecting Green only.

  The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
- 3. Repeat for Red focus VR while projecting Red only.
- 4. Repeat for Blue. (Best focus at bottom left corner of screen)

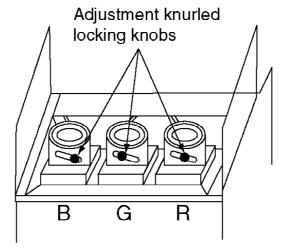
## 7.3. Optical Lens Focus Adjustment

#### Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

Fig. 4 (Rear view)



Optical lens focus adjustment

- 2. Turn the Receiver ON apply and view a monoscope pattern.
- 3. Adjust each lens focus for best focus while viewing each CRT.
- 4. Cover the Red and Blue CRT, projecting green only. Rotate the Green lens for best focus around screen center area.
- 5. Do the same for the Red focus lens while projecting Red only.
- 6. Repeat for Blue.

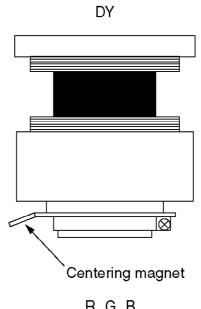
## 7.4. Centering Magnet Adjustment

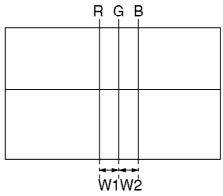
- 1. Receive a monoscope pattern.
- 2. Set that Fine convergence data (Service mode1) is clear (no correction).
- 3. Set that V-Pos data (Service mode1) is [130].
- 4. Set that H-Pos data (Service mode1) is [438].
- 5. Set that H-Parallel data (Service mode1) is [8].

#### Procedure:

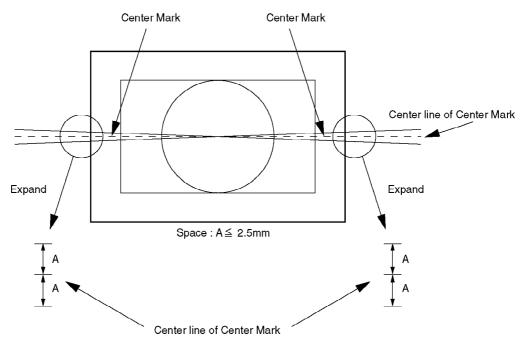
- 1. Cover the Red, Blue CRT lens, projecting Green only.
- 2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
- 3. Cover the Green, Red CRT lens, projecting Blue only.
- 4. Repeat step 2. for blue.

- 5. Cover the Green, Blue CRT lens, projecting Red only.
- 6. Repeat step 2. for red.
- 7. Cover the Red, Blue CRT lens, projecting Green only.
- 8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
- 9. Cover the Green, Red CRT lens, projecting Blue only.
- 10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
- 11. Cover the Green, Blue CRT lens, projecting Red only.
- 12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.





47inch W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm



## 7.5. Alignment magnet Adjustment

#### Preparation:

- 1. Receive an cross hatch pattern with dots (pincushion).
- 2. Loosen the centering magnets screws.
- 3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

Oummy ring

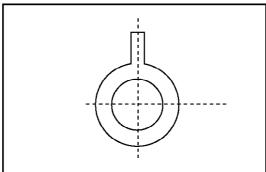
4-pole magnet

4-pole magnet

Set 90 degrees

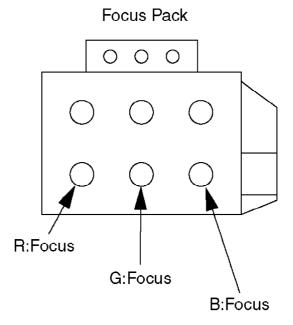
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.

Alignment magnet (or dummy ring)



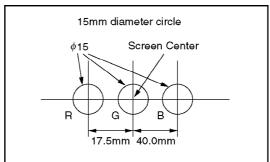
#### Procedure:

- 1. Receive an cross hatch pattern with dots.
- 2. Cover the Red, Blue CRT lens, projecting Green only.
- 3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
- 4. Turn the green electrical focus adjustment VR fully clockwise.
- 5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
- 6. Adjust for best green electrical focus with green electrical focus adjustment VR.
- 7. Cover the Green, Red CRT lens, projecting Blue only.
- 8. Repeat step 4. ~ step 6. for blue electrical focus.
- 9. Cover the Green, Blue CRT lens, projecting Red only.
- 10. Repeat step 4. ~ step 6. for red electrical focus.



- 11. Receive an monoscope pattern.
- 12. Cover the Red, Blue CRT lens, projecting Green only.
- 13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)

Centering magnet adjustment



- 14. Cover the Green, Blue CRT lens, projecting Red only.
- 15. Repeat step 13. for the red.
- 16. Cover the Green, Red CRT lens, projecting Blue only.
- 17. Repeat step 13. for the blue.
- 18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

## 8. Deflection Adjustment

#### Caution

- 1. The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i).
- 2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
- 3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

## 8.1. PAL 100Hz mode (100i)

#### 8.1.1. Preparation

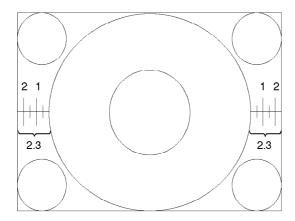
- 1. Receive PAL monoscope pattern.
- 2. Set scan mode to 100Hz.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	180
V-Pos	130	Bottom- Corner	177
H-Parallel	8	V-S-Correct	60
IVBL C	115	C-Correct	7

- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

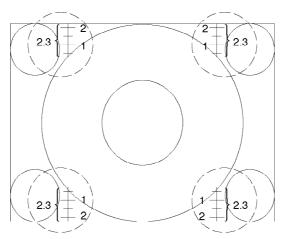
#### 8.1.2. H-Pos and H-Amp Adjustment

- 1. Adjust Monoscope pattern for center of the screen by H-Poscontrol.
- 2. Adjust Horizontal amplitude for 2.3 ±0.1 division of a scale by H-Amp control.

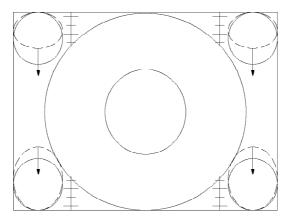


## 8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.1.4. Parabola and Trapezoid Adjustment

- 1. Receive PAL cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.2. PAL 100Hz V Comp mode (100i)

#### 8.2.1. Preparation

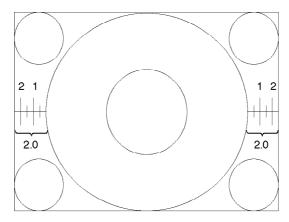
- 1. Receive PAL monoscope pattern.
- 2. Set scan mode to 100Hz.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom- Corner	188
H-Parallel	8	V-S-Correct	25
IVBL C	45	C-Correct	7

- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

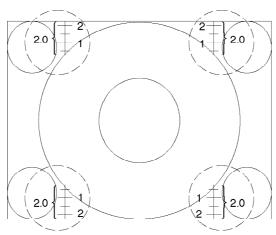
## 8.2.2. H-Pos and H-Amp Adjustment

- 1. Adjust Monoscope pattern for center of the screen by H-Poscontrol.
- 2. Adjust Horizontal amplitude for 2.0  $\pm$ 0.1 division of a scale by H-Amp control.

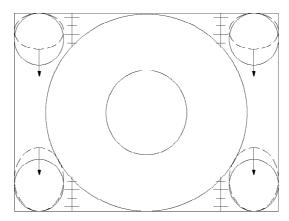


## 8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.0  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.2.4. Parabola and Trapezoid Adjustment

- 1. Receive PAL cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.3. PAL Progressive mode (50p)

#### 8.3.1. Preparation

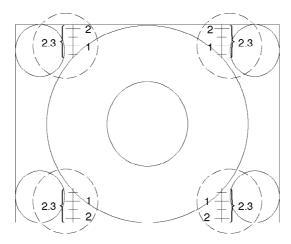
- 1. Receive PAL monoscope pattern.
- 2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
- 3. Set scan mode to progressive.
- 4. Set the Aspect Menu to 16:9.
- 5. Set the Picture Menu to NORMAL.
- 6. Set the TV to Service Mode 1.
- 7. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom- Corner	177
IVBL C	95	V-S-Correct	65
Top-Corner	177	C-Correct	7

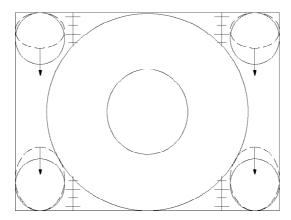
- 8. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 9. Push [ HELP ] button so that projecting Green only.

#### 8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



- 3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.
- 8.4. NTSC Progressive mode (60p)

#### 8.4.1. Preparation

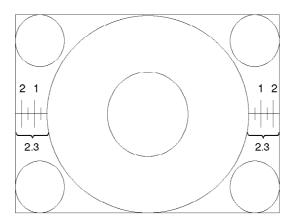
- 1. Receive NTSC monoscope pattern.
- 2. Set scan mode to Progressive.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom- Corner	167
IVBL C	95	V-S-Correct	65
Top-Corner	176	C-Correct	7

- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

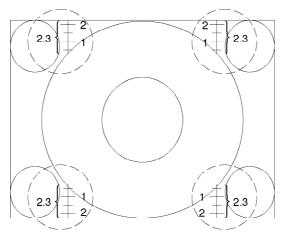
#### 8.4.2. H-Pos and H-Amp Adjustment

- 1. Adjust Monoscope pattern for center of the screen by H-Poscontrol.
- 2. Adjust Horizontal amplitude for 2.3  $\pm$  0.1 division of a scale by H-Amp control.

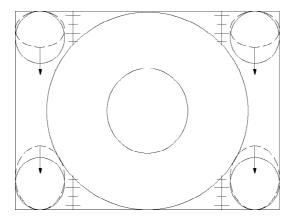


### 8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

#### 8.4.4. Parabola and Trapezoid Adjustment

- 1. Receive NTSC cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.5. 525p Deflection Adjustment / Confirmation

#### 8.5.1. V / H-Deflection confirmation

- 1. Receive 525p signal.
- 2. Confirm V / H-Deflection is normal.

#### 8.5.2. H-Pos confirmation / Adjustment

- 1. Receive 525p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

#### 8.6. 625p Deflection Adjustment / Confirmation

#### 8.6.1. V / H-Deflection confirmation

- 1. Receive 625p signal.
- 2. Confirm V / H-Deflection is normal

#### 8.6.2. H-Pos confirmation / Adjustment

- 1. Receive 625p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

# 9. Adjustment Procedure

### 9.1. Cut off Adjustment

**Preparation** 

Picture Menu: Dynamic WB-B-G-ST1: 255

C Temp: Standard High-RGB: 128

AI: ON Low-RGB: 640

P-NR: AUTO

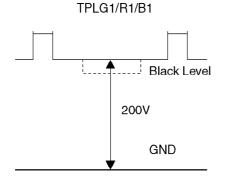
Scan Mode: 100Hz (PAL) G-Limit: 255

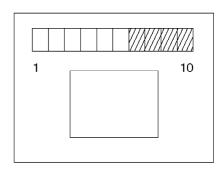
Screen VR: Full Counterclockwise B-Limit: 255

**Adjustment** 

1. Receive a Black Level pattern.

- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Bright so that the waveform A is  $200 \pm 2V$ .
- 4. Connect an oscilloscope to TPLR1 on LR-Board.
- 5. Adjust Low-R so that the waveform A is  $200 \pm 2V$ .
- 6. Connect an oscilloscope to TPLB1 on LB-Board.
- 7. Adjust Low-B so that the waveform A is  $200 \pm 2V$ .
- 8. It pushes and it makes a [HELP] key the project only of GREEN.
- 9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
- 10. It pushes and it makes a [HELP] key the project only of RED.
- 11. The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
- 12. It pushes and it makes a [HELP] key the project only of BLUE.
- 13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.





### 9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

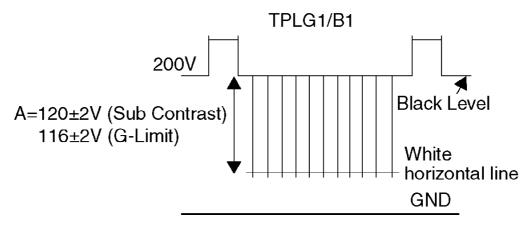
C Temp: Standard High-RGB: 128

AI: ON Low-G: 640
P-NR: AUTO G-Limit: 255
Scan Mode: 100Hz (PAL)

Cut off Adjustment has been adjusted

Adjustment

- 1. Receive a Cross Hatch pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Contrast so that the waveform A is  $120 \pm 2V$ .
- 4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
- 5. Adjust G-Limit so that the waveform A is  $116 \pm 2V$ .



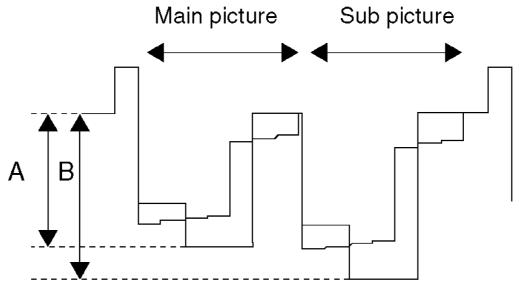
# 9.3. Sub Picture Contrast Adjustment

**Preparation** 

Picture Menu : Dynamic

AI : ON Adjustment

- 1. Receive a Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.
- 4. Write same date on Video gain TV as Video gain AV.



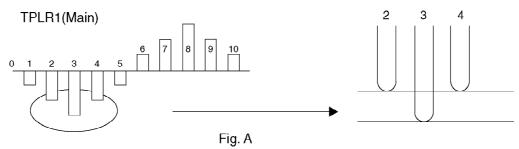
### 9.4. NTSC Tint Adjustment

**Preparation** 

Picture Menu : Dynamic P-NR : AUTO C Temp : Standard Scan Mode : 100Hz (PAL)

AI : ON Adjustment

- 1. Receive a Rainbow (NTSC 3.58Hz) pattern.
- 2. Connect an oscilloscope to TPLR1 on LR-Board.
- 3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



- 4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
- 5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.

# TPLR1(Sub)

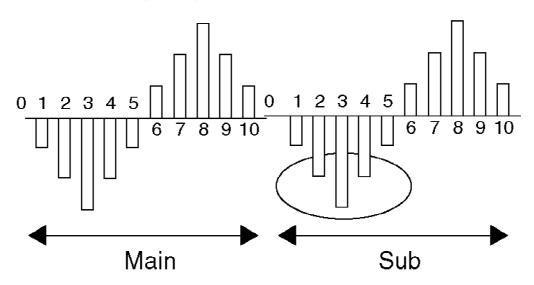


Fig. B

### 9.5. Sub Color Adjustment

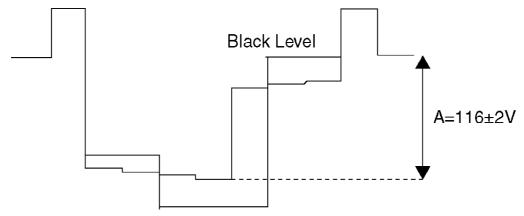
Preparation

Picture Menu : Dynamic P-NR : AUTO C Temp : Standard Scan Mode : 100Hz (PAL)

AI: ON ACL: OFF

**Adjustment** 

- 1. Receive a PAL Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Color so that the waveform A is  $116 \pm 2V$ .



# 9.6. Blue Focus / Gamma Adjustment

Preparation

Picture Menu: Dynamic WB-B-G-ST1: 100

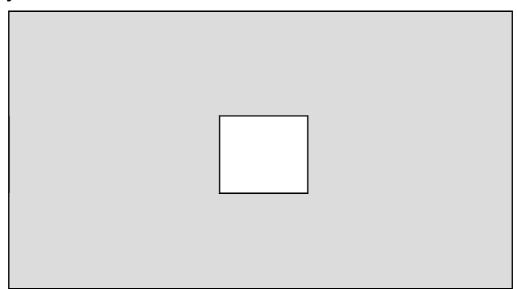
C Temp: Standard B-Limit: 255

AI : ON P-NR : AUTO

Scan Mode: 100Hz (PAL)

Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Set the Sub Contrast and High-B to Max.
- 4. It pushes and it makes a [HELP] key the project only of BLUE.
- 5. Adjust Blue Focus VR so that Y is 7.0 ± cd/m<sup>2</sup>



# 9.7. White Balance Adjustment

**Preparation** 

Picture Menu : Dynamic Sub Bright :130

C Temp: Standard High R: 100

AI: ON

P-NR : ON High B : 128

Scan Mode: 100Hz (PAL) WB-B-G-ST1: 170

Low G : 640 Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
- 4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

Mode	Bright	Controle DAC name		Target (x)	C. Temp	MPCD
	(cd/m²)	RED	BLUE	(y)	(K)	
Hi	120	High R	WB-B-G-ST1	0.265 ± 0.005	13000 ± 500	-5 ± 5
				0.250 ± 0.005	13000 ± 500	
NA: al	45		Liimb D	0.265	11500 ± 500	-20 ± 5
Mid	45		High B	0.235 ± 0.005	11500 ± 500	-20±3
		1 D	1 D	0.280 ± 0.008	9200 ± 500	-25 ± 5
Low	3	Low R	Low B	0.240 ± 0.008	9200 ± 500	-25 ± 5

### 9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO C Temp : Dynamic Scan Mode : 100Hz (PAL)

AI: ON

Cut off and White Balance Adjustment has been adjusted

Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a PAL Window pattern.
- 3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.

### 9.9. Blue Limit Adjustment

**Preparation** 

Picture Menu : Dynamic C Temp : Standard

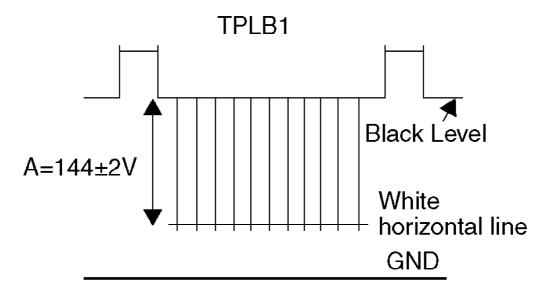
AI : ON P-NR : ON

Scan Mode: 100Hz (PAL)

White Balance Adjustment has been adjusted

Adjustment

- 1. Receive a Cross Hatch pattern.
- 2. Connect an oscilloscope to TPLB1 on LB-Board.
- 3. Adjust B-LIMIT so that the waveform A is  $144 \pm 2V$ .



# 10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment of NTSC mode.

When replacing the following Parts.

IC7301 (EEP-ROM in A-Board)L551 (Pincushion Coil)High Voltage Producing Parts Other Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

When replacing one of the CRT's.

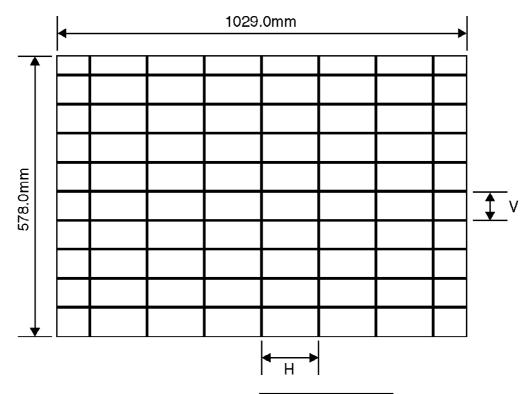
Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

**Helpful Hint** 

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [ ] and [ ] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these. (Page 29)

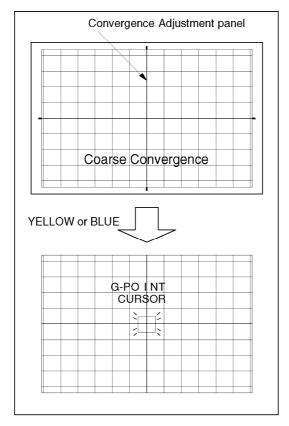
# 10.1. Convergence Adjustment Sheet



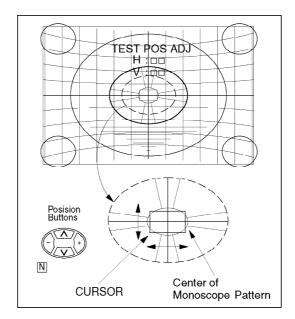
	メッシュビ	゚ッチ(mm)
信号	Н	V
PAL 100	176.5	75.5
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	75.5
NTSC Progressive	170.5	77.5
1080i/50	191.5	81.5

# **10.2. Convergence Adjustment Procedure**

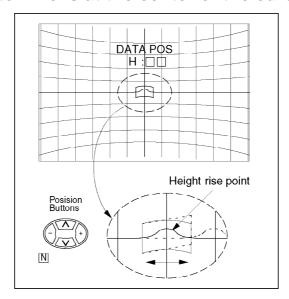
- 1. Input a monoscope pattern of PAL.
- 2. Enter the Service Mode1.
- 3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
- 4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
- 5. Push the "YELLOW" or "BLUE" on the remote control, and enter the Coarse Convergence Adjustment mode.



- 6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
- 7. Enter to "TEST POS." mode.
- 8. Push the "5" button to display the monoscope pattern on the screen.
- 9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.



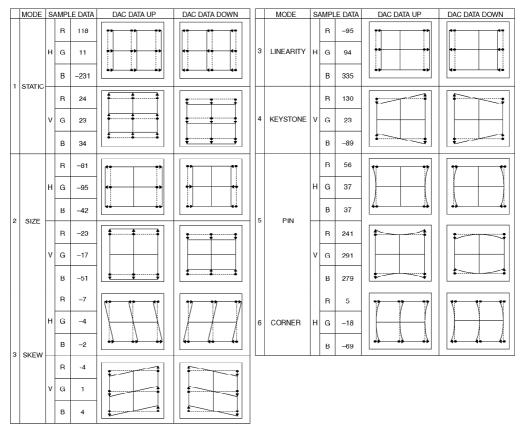
- 10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
- 11. Push the "5" button and close the background image (monoscope pattern).
- 12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.



- 13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
- 14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
- 15. Push the "SET UP" button, and "N" button to store data.

# 16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

### 10.3. Coarse Convergence Adjustment mode

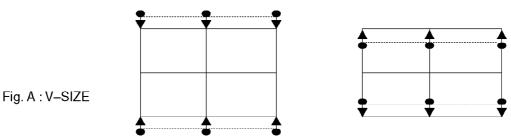


#### 10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

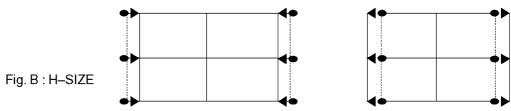
Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour. 10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.



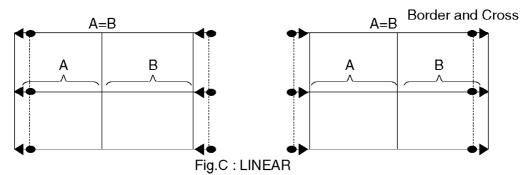
10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.



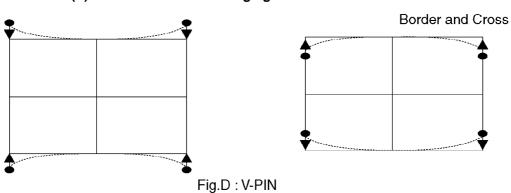
10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.



10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.



10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

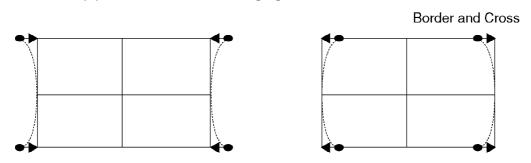


Fig.E: H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

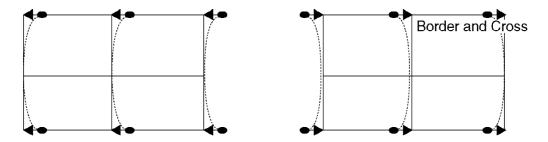


Fig.F: CORNER

#### 10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY".Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

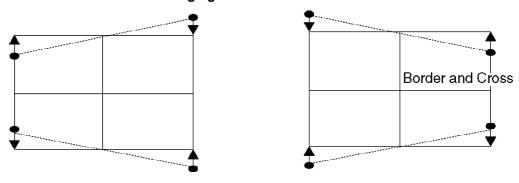


Fig.G: KEY

#### 10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

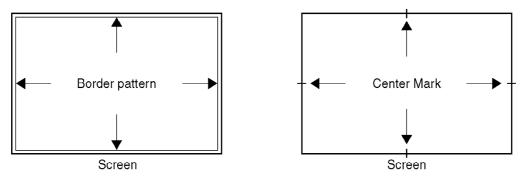


Fig.H STATIC

#### 10.3.2. Red Coarse Convergence Adjustment

#### **10.3.2.1.** Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Redcolor of pattern is aligned with Green colour of pattern.

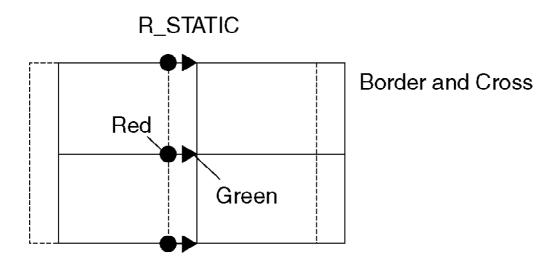


Fig.I: R-STATIC

#### 10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

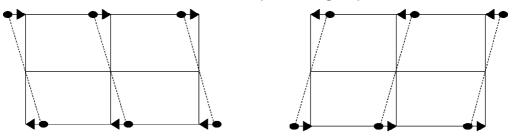


Fig.J: SKEW(V)

#### 10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

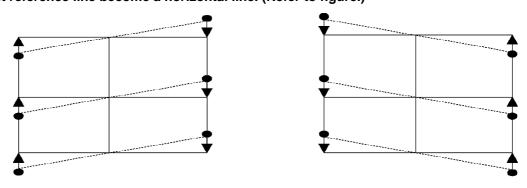


Fig.K: SKEW(H)

#### 10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY".Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

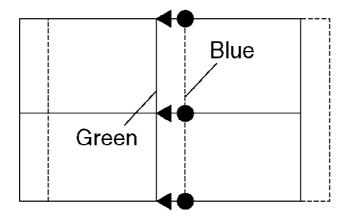
Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

#### 10.3.3. Blue Coarse Convergence Adjustment

**10.3.3.1.** Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

# **BLUE\_STATIC**



**Border and Cross** 

Fig.L: B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

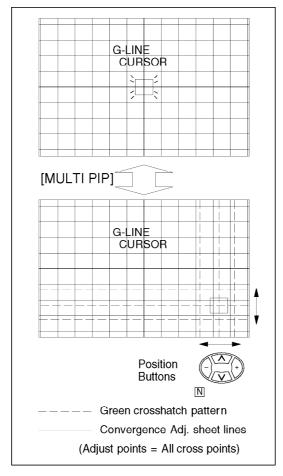
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

# 10.4. Fine Convergence Adjustment

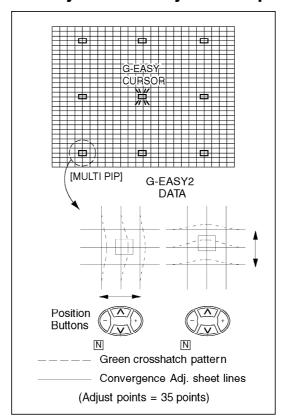
#### 10.4.1. Green Convergence Adjustment

1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

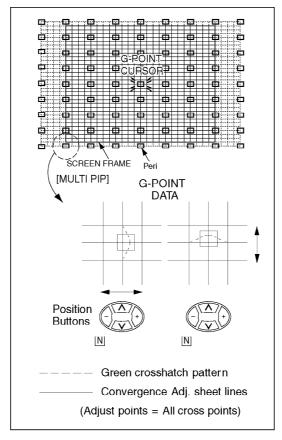


- 2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- 3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
- 5. Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).
- 6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
- 7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

- 8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
- 10. Repeat step 7~9 to adjust the 9 adjustment points.



- 11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
- 12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- 13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
- 15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

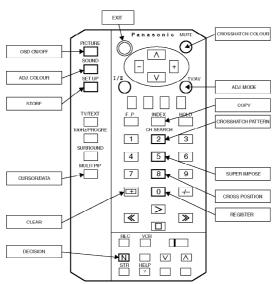
- 17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E<sub>2</sub> PROM).
- 18. Remove the Convergence Adjustment Sheet from the screen.

#### 10.4.2. Red Convergence Adjustment

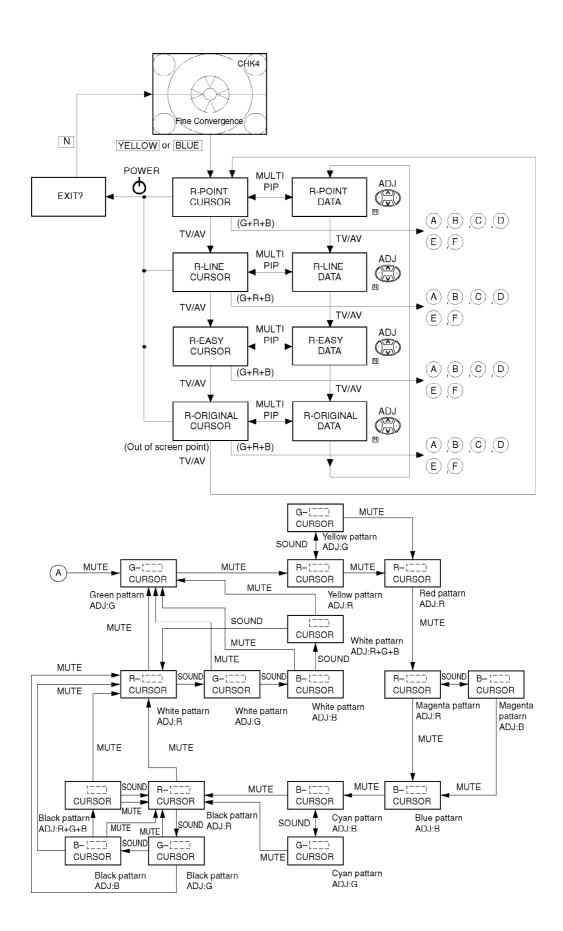
- 1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
- 3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

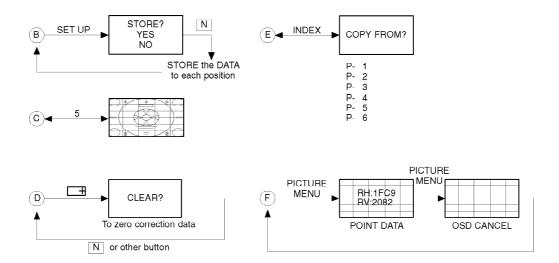
#### 10.4.3. Blue Convergence Adjustment

- 1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
- 3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
- 4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



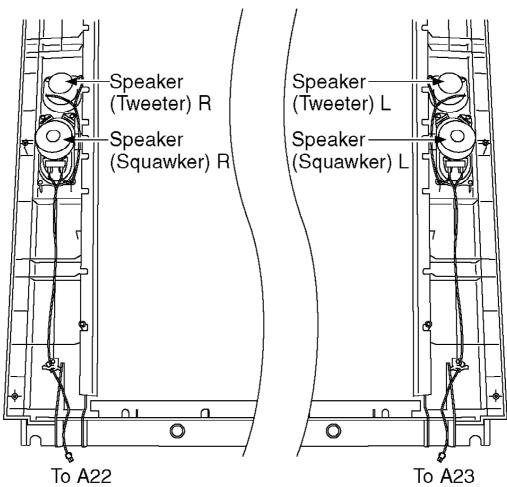
**Fine Convergence Control Chart** 



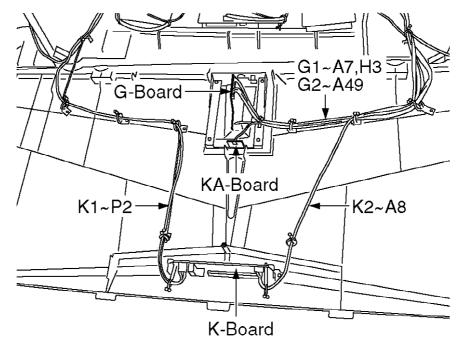


# 11. Location of Lead Wiring

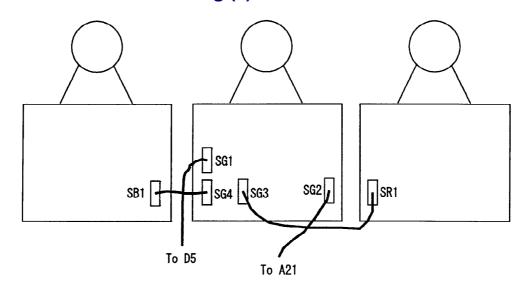
# 11.1. Location of Lead Wiring (1)



11.2. Location of Lead Wiring (2)



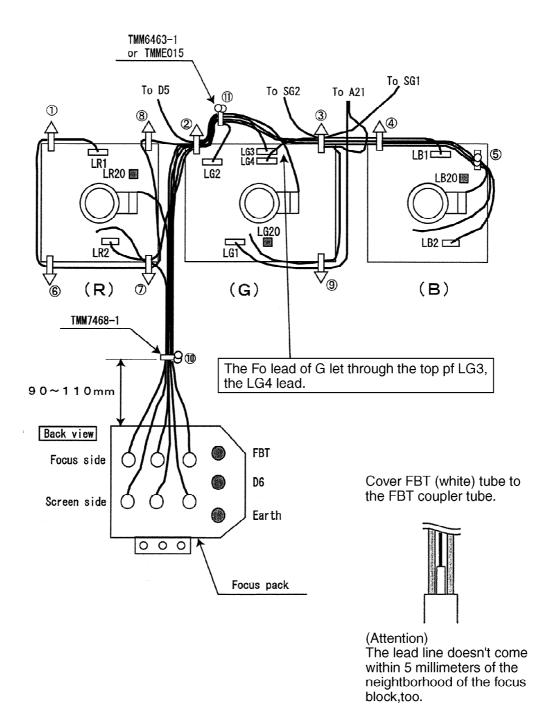
# 11.3. Location of Lead Wiring (3)



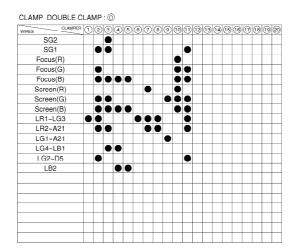
INSERTION OF CONNECTOR

SB1, SG1, SG2, SG3, SG4, SR1

# 11.4. Location of Lead Wiring (4)



INSERTION OF CONNECTOR LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2, LR20, LG20, LB20



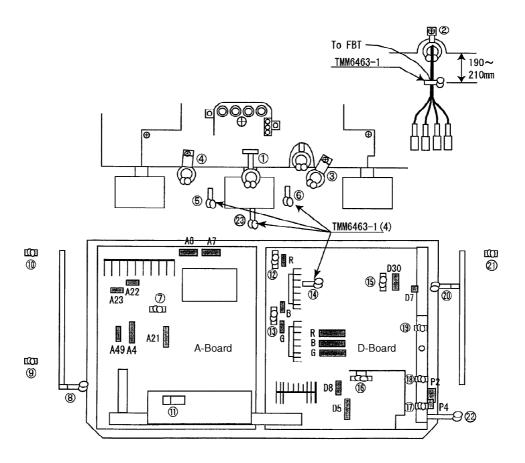
#### NOTICE FOR WORE DRESSING

- 1. Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
- 2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
- 3. It decides to be permitted to insert G, B of the DY lead in either.
- 4. Keep the Fo lead of B clear of components of the LB-Board and IC2301 heat sink of the A-Board.

# 11.5. Location of Lead Wiring (5)

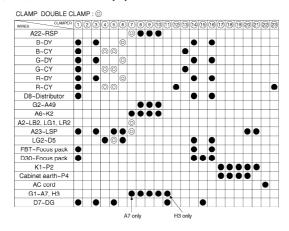
The Anode Lead

- 1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).
- 2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.



#### **INSERTION OF CONNECTOR**

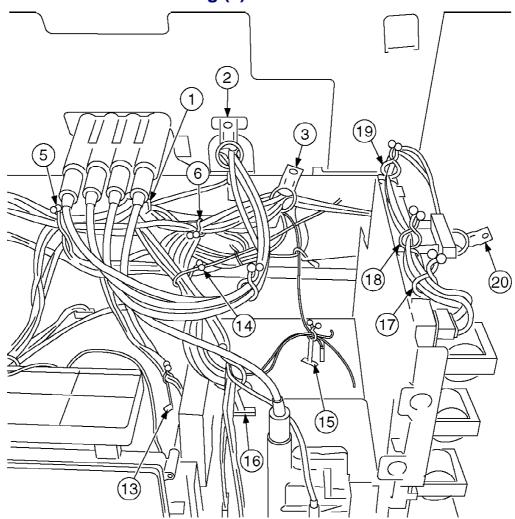
A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)



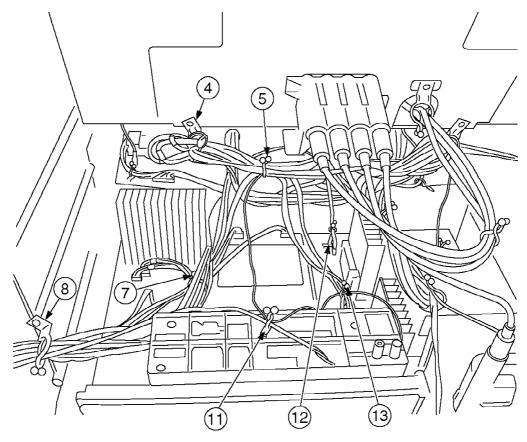
#### **NOTICE FOR WIRE DRESSING**

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

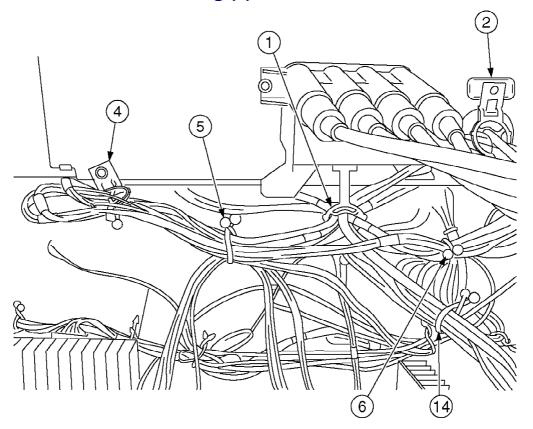
# 11.6. Location of Lead Wiring (6)



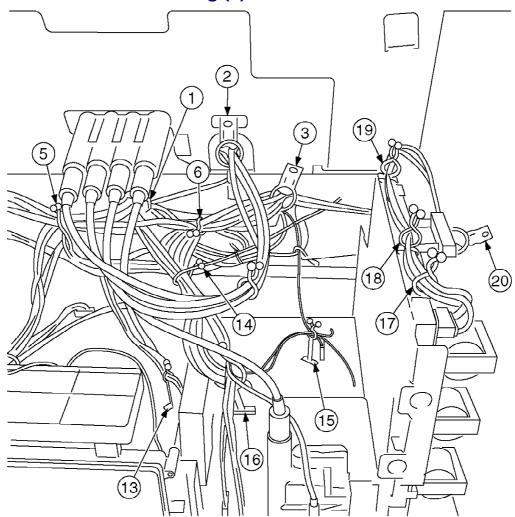
11.7. Location of Lead Wiring (7)



# 11.8. Location of Lead Wiring (8)



# 11.9. Location of Lead Wiring (9)



# 12. Conductor Views

- 12.1. A-Board
- 12.2. **D-Board**
- 12.3. DC-Board
- **12.4. DG-Board**
- 12.5. H-Board
- 12.6. LG, LR and LB Board
- 12.7. P-Board
- 12.8. **SG-Board**

- 12.9. SR and SB Board
- 12.10. U-Board
- 12.11. G, K and KA-Board
- 13. Block Diagram
- 13.1. Audio Block Diagram
- 13.2. Video Block Diagram
- 13.3. Power Block Diagram
- 13.4. Control Block Diagram
- 14. Schematic Diagram
- 14.1. Schematic Diagram Notes

	Important Safety Notice						
	Components identified by ∆ mark have special characteristics important for safet When replacing any of these components, use only manufacture's specified parts						
ntes:							
Resi	stor						
All re	esistors are cabon 1/4W resistor, unless	marked as foll	lows:				
Unit-	of resistance is OHM [Ω] (K=1,000, M=1	1,000,000).					
	: Nonflammable	⊠	: Motal Oxido				
	∴ Solid	0	: Metal Film				
	: Wire Wound	⊗	: Fuse:				
2. Capa							
	apacitors are ceramic 50V capacitor, un		s follows:				
	Unit of capacitance is µF, unless otherwise noted.						
	⊗ : Temperature Compensation	-14-	: Electrolytic				
	⊕ : Polyester	NP 14	: Bipolar				
	Metalized Polyester	Œ	: Dipped Tantalum				
		Ø	: Z-Type				
	Coll						
	of inductance is μF, unless otherwise no	oted.					
a. rest	Test Point  Test Point position						
	○ : Test Point position n Symbol						
o. Earti	# : Chassis Earth (Cold)		: Line Earth (Hot)				
. Volto		4	: Line Earth (Hot)				
	Voltage Measurement						
	Voltage is measured by a DC voltmeter.  Conditions of the measurement are the following:						
COIL	Conditions of the measurement are the following:  Power Source						
	Receiving Signal						
	All customer's controls		Maximum positions				
7. Num	ber in red circle indicates waveform ner		NORMALITATI PROSTITORIS				
	waveform pattern table.)	ilber.					
	n arrow mark ( / ) is found, connection	ie ageilu found	from the direction of arrow				
J. ************************************	il allow mark ( /- ) is lound, conficcion	is easily round	non the direction of allow				
9. Indic	ates the major signal flow. : Video	Δ.	ıdio ⇔				
	schematic diagram is the latest at the ti						
notic		o or printing t	and dabjoor to enalige without				
HOUR	···						

TX-47P800HQ/HZ Schematic Diagram Note

- narks:
  The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
  The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
  All circuits, except the Power Circuit, are cold.
  Precautions
  - - ons
      a. Do not touch the hot part or the hot and cold parts at the same time or you may
      be shocked.
      b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may

    - break.
      Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
      Connect the earth of instruments to the earth connection of the circuit being
- Make sure to disconnect the power plug before removing the chassis.
   Following diodes are interchangeable.
   M4150-M4162 (Replacement part)

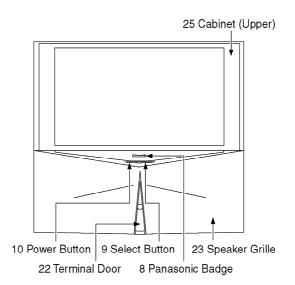
TX-47P800HQ/HZ Schematic Diagram Note

- 14.2. A-Board (1 of 5) Schematic Diagram
- 14.3. A-Board (2 of 5) Schematic Diagram
- 14.4. A-Board (3 of 5) Schematic Diagram
- 14.5. A-Board (4 of 5) Schematic Diagram
- 14.6. A-Board (5 of 5) Schematic Diagram
- 14.7. D-Board (1 of 2) Schematic Diagram
- 14.8. D-Board (2 of 2) Schematic Diagram
- 14.9. DC-Board Schematic Diagram
- 14.10. DG-Board (1 of 6) Schematic Diagram
- 14.11. DG-Board (2 of 6) Schematic Diagram
- 14.12. DG-Board (3 of 6) Schematic Diagram
- 14.13. DG-Board (4 of 6) Schematic Diagram
- 14.14. DG-Board (5 of 6) Schematic Diagram
- 14.15. DG-Board (6 of 6) Schematic Diagram
- 14.16. H-Board (1 of 2) Schematic Diagram

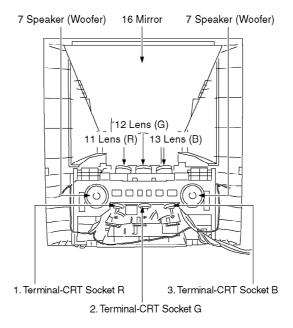
- 14.17. H-Board (2 of 2) Schematic Diagram
- 14.18. LG-Board Schematic Diagram
- 14.19. LB and LR-Board Schematic Diagram
- 14.20. P-Board Schematic Diagram
- 14.21. SG-Board Schematic Diagram
- 14.22. SB and SR-Board Schematic Diagram
- 14.23. U-Board (1 of 2) Schematic Diagram
- 14.24. U-Board (2 of 2) Schematic Diagram
- 14.25. G, K and KA Board Schematic Diagram

# 15. Parts Location

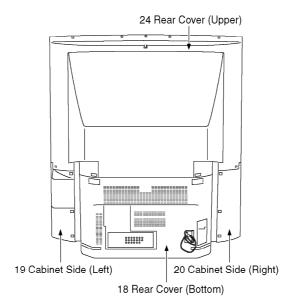
#### Front View (1)



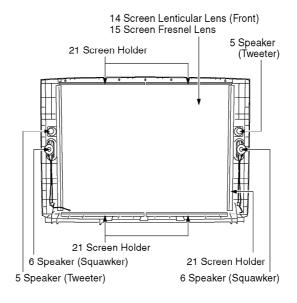
Front View (2)



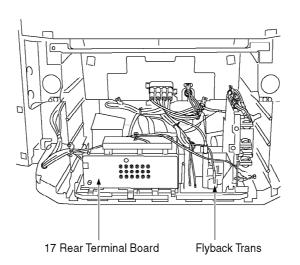
## Rear View (1)



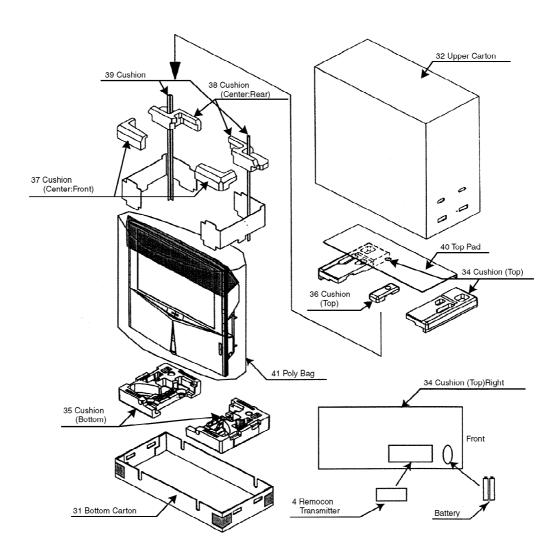
## Rear View (2)

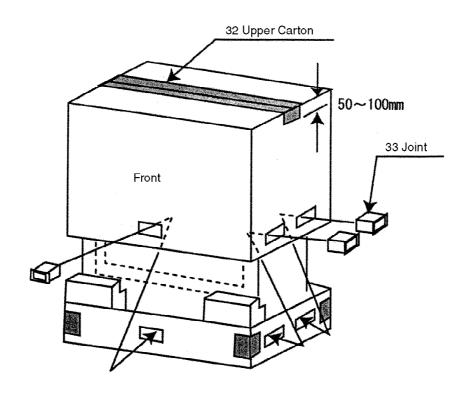


#### Rear View (3)



# 16. Packing Exploded View





# 17. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
4	2542227222	TERMINAL-CRT SOCKET R	4	
<u>1</u>	3F1032072220		1	
2	3F1032072350	TERMINAL-CRT SOCKET G	1	
<u>3</u>	3F1032072570	TERMINAL-CRT SOCKET B	1	
	D9ZZ00000075	FOCUS CONTROL VLUME	1	Δ
<u>4</u>	EUR511267	REMOCON TRANSMITTER	1	
	G0F100000004	DEFLECTION YOKE	3	<u>A</u>
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	Δ
<u>5</u>	L0AA05A00045	SPEAKER (TWEETER)	2	
<u>6</u>	L0AA12B00006	SPEAKER (SQUAWKER)	2	
<u>7</u>	L0AA13A00003	SPEAKER(W00FER)	2	
	TBLB0010	CASTER	4	
<u>8</u>	TBMA071	PANASONIC BADGE	1	
<u>9</u>	TBX0A83201	SELECT BUTTON	1	
<u>10</u>	TBX0A83301	POWER BUTTON	1	
	TEKC029	DANPER	1	
	TES0A213	SPRING	1	
	TES6583	SPRING FOR TR	2	
	TESA031	SPRING	2	
	THEC071U	SCREW	2	
	THT1062	SCREW	6	
	THTA006Z	SCREW	48	
<u>11</u>	TKGF0089	LENS (R)	1	
12	TKGF0090	LENS (G)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>13</u>	TKGF0091	LENS (B)	1	
<u>14</u>	TKGH5081	SCREEN LENTICULAR LENS	1	
<u>15</u>	TKGH5082	SCREEN FRESNEL LENS	1	
<u>16</u>	TKGJ5077	MIRROR	1	
	TKK0A8521	LED PANEL	1	
	TKK0A8522	RECIEVER PANEL	1	
	TKK0A8523	TERMNAL DOOR	1	
	TKKF5046-1	COVER	1	
	TKKH5061	COVER	2	
	TKKL5268	AC CORD COVER	1	
<u>17</u>	TKP0AA7505	REAR TERMINAL BOARD	1	
	TLHX017	VM COIL	3	
	TMM0A436	A-PCB GUIDE	2	
	TMM0A512	POWER BUTTON SPEACER	1	
	TMM14520	VALVE	3	
	TMM15582	SPEACER	2	
	TMM16452	CLAMPER	8	
	TMM16473-1	CLAMPER	17	
	TMM16480-1	CLAMPER	1	
	TMM16497-1	CLAMPER		
	TMM3565	RUBBER CAP	4	
	TMM6428-1	CLAMPER	5	
	TMM6463-1	CLAMPER	5	
		CLAMPER	4	
	TMM7464-2			
	TMM7468-1	CLAMPER	1	
	TMM76430-1	CLAMPER	4	
	TMME047	CLAMPER	3	
	TMMJ006	SPACER	3	
	TMMJ007	SPACER	3	
	TMMX006	SPACER	3	
	TMMX027-2	HOLDER	1	
	TMW0A701	LED HOLDER	1	
	TMWJ032	LED SPACER	1	
	TMX0A414	BRACKET	1	
	TMZ0A9102	DOOR FRAME	1	
	TMZ159837-1	CRT BOSS	2	
<u>31</u>	TPCB40801	BOTTOM CARTON	1	
<u>32</u>	TPCB40901	UPPER CARTON	1	
<u>33</u>	TPD169487	JOINT	6	
<u>34</u>	TPDA0774	CUSHION (TOP)	1	
<u>35</u>	TPDA0775	CUSHION (BOTTOM)	1	
<u>36</u>	TPDA0776	CUSHION (TOP)	1	
<u>37</u>	TPDA0777	CUSHION (CENTER: FRONT)	1	
<u>38</u>	TPDA0778	CUSHION (CENTER: REAR)	1	
<u>39</u>	TPDF0845	CUSHION	2	
<u>40</u>	TPDF1056	TOP PAD	1	
	TPDF1088	CUSHION	2	
<u>41</u>	TPEH200	POLY BAG	1	
	TPEH213	PROTECT COVER	1	
	TQBC0542	INSTRUCTION BOOK(ENGLISH)	1	
	TSX1495	AC POWER CORD	1	Δ
10	_		1	
<u>18</u>	TTVA0695	REAR COVER(BOTTOM)	1	
	TTYA0615	CABINET (BOTTOM)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TXCG1JBV	PICTURE TUBE (G)	1	Δ
	TXCR1JBV	PICTURE TUBE (R)	1	Δ
9	TXFKX010JBV	CABINET SIDE (LEFT)	1	
<u>20</u>	TXFKX020JBV	CABINET SIDE (RIGHT)	1	
<u>21</u>	TXFMZ020JBV	SCREEN HOLDER	6	
	TXJA220JBV-1	SPEAKER LEED(R)	1	
	TXJA230JBV-1	SPEAKER LEED(L)	1	
22	TZRKK010JBV	TERMINAL DOOR	1	
23	TZRKP010JDV	SPEAKER GRILLE	1	
24	TZRKU010JDV	REAR COVER (UPPER)	1	
<u>25</u>	TZRKY010JDV	CABINET (UPPER)	1	
	XNP4F	NUT	3	
	XTB4+10J	SCREW	11	
	XTB4+12A	SCREW	13	
	XTB4+12G	SCREW	5	
	XTBT964	SCREW	19	
	XTV3+12AFC	SCREW	2	
	XTV3+12G	SCREW	20	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTV3+8G	SCREW	6	
	XTW3+10T	SCREW	37	
	XTW3+8T	SCREW	4	
	XTW4+Z15D	SCREW	10	
	XTWT983G	SCREW	4	
	XWC8B	WASHER	1	
	XWG4	WASHER	3	
	XWG8	WASHER	1	
	XYN3+C10	SCREW	1	
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	1	
	XYN3+F12	SCREW	1	
	XYN3+F16	SCREW	4	
	XYN3+J8	SCREW	29	
	XYN4+F14	SCREW	12	
	XYN4+J10	SCREW	12	
	XYN4+J8FZ	SCREW	12	
	XYN5+F12	SCREW	12	
	XYN5+F16	SCREW	12	
	XZBT6506	POLY BAG	1	

# 18. Electrical Replacement Parts List

### 18.1. Replacement Parts List Notes

#### **Important Safety Notice**

Components identified by  $\triangle$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

#### RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.

After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor2. CapacitorExample:Example:

 $\mbox{ERD25TJ104} \quad \underline{\mbox{C}} \quad \mbox{100KOHM}, \ \underline{\mbox{J}}, \ \mbox{1/4W} \qquad \qquad \mbox{ECKF1H103ZF} \quad \underline{\mbox{C}} \quad \mbox{0.01UF}, \ \underline{\mbox{Z}}, \ \ \mbox{50V}$ 

Type Allowance Type Allowance

Туре	Allowance
C: Carbon F: Fuse M: Metal Oxide Metal FIlm S: Solid W: Wire Wound	F:±1% G:±2% J:±5% K:±10% M:±20%

Туре	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyprop lene T : Tantalum	C: ±0.25pF D: ±0.5pF F: ±1pF G: ±3pF J: ±5pF K: ±10pF L: ±15pF M: ±20pF P: +100%, -0% Z: +80%, -20%

### 18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
•	01	**CM NOTHING**	1	(RTL)
•	01	**CM NOTHING**	1	(RTL)
A1-A3	TJSF19916	16P CONNECTOR	3	K1KA16A00119
A4	TJS3A9890	9P CONNECTOR	1	K1KA09A00074
A6	K1KA05A00139	5P CONNECTOR	1	
A7	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
A11	TJSF17335	CONNECTOR	1	K1KB35B00001
A15	K1KA03A00172	3P CONNECTOR	1	
A17	K1KA03A00172	3P CONNECTOR	1	
A18	K1KA02A00188	2P MINI	1	
A21	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
A22	K1KA05A00139	5P CONNECTOR	1	
A23	K1KA04A00195	4P CONNECTOR	1	
A44	TJSF57570	70P CONNECTOR	1	
A49	K1KA05A00139	5P CONNECTOR	1	
A50	TJSF19916	16P CONNECTOR	1	K1KA16A00119
A51-53	K1KA10A00263	10P CONNECTOR	3	
A54	K1KA05A00139	5P CONNECTOR	1	
A1001,02	K1KA30A00128	30P CONNECTOR	2	
C005	ECA1HM100	E 10UF, 50V	1	
C006	ECJ2VC1H090D	C 9PF, C, 50V	1	
C008	ECA0JM222	E 2200UF, 6.3V	1	
C010	ECA0JM102	E 1000UF, 6.3V	1	
C014	ECA1HM100	E 10UF, 50V	1	
C015	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C016,17	ECJ2FB1C474K	C 0.47UF, Z, 16V	2	
C018	ECJ2XC1H220J	C 22UF, J, 50V	1	
C019	ECJ2XC1H331J	C 330PF, J, 50V	1	
C020	ECJ1XC1H121J	C 120PF, J, 50V	1	
C024	ECA0JM222	E 2200UF, 6.3V	1	
C025	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C026	ECJ1XC1H331J	C 330PF, J, 50V	1	
C060	ECA0JM102	E 1000UF, 6.3V	1	
C068	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C351	ECA2EM100	E 10UF, 250V	1	
C353	ECKD2H103PU	C 0.01UF, P,500V	1	
C356	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C357	ECQB1H104KF	P 0.1UF, K, 50V	1	
C360	ECA1VM470	E 47UF, 35V	1	
C361	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C364	ECA1VM470	E 47UF, 35V	1	
C365	ECA2EM470	E 47UF, 250V	1	
C371	ECA2EM100	E 10UF, 250V	1	
C373	ECKD2H103PU	C 0.01UF, P,500V	1	
C374	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C374 C376	ECKP1111032P	C 1000PF, K, 2KV	1	
C376 C377	ECQB1H104KF	P 0.1UF, K, 50V	1	
C380	ECA1VM470	E 47UF, 35V	1	
C381	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C391	ECA2EM100	E 10UF, 250V	1	+

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C393	ECKD2H103PU	C 0.01UF, P,500V	1	
C396	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C397	ECQB1H104KF	P 0.1UF, K, 50V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452,53	ECA1VM471	E 470UF, 35V	2	
C454	ECKF1H821KB	C 270PF, K, 50V	1	
C455	ECEA1CN220U	E 22UF, 16V	1	
C456	ECQB1224KF	P 0.22UF, 100V	1	
C458	ECQB1H104JF	P 0.1UF, J, 50V	1	
C460	ECA1HM100	E 10UF, 50V	1	
C461	ECA1HM102	E 1000UF, 50V	1	
C462	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C502	ECA1VM101	E 100UF, 35V	1	
C503	ECQV1H104JM	P 0.1UF, J, 50V	1	
C504	ECKD2H102KB2	C 1000PF, K,500V	1	
C505	ECA1EM222	E 2200UF, 25V	1	
C511	ECCD3F181KGE	C 270PF, K, 2KV	1	
C512	ECWH20242JVY	P 2400PF, J, 2KV	1	
C513	ECQF6123JZH	P 0.012UF, J,630V	1	
C514	ECWH20272JVY	P 2700PF, J, 2KV	1	
C515	ECWF2474JSR	P 0.47UF, J,250V	1	
C516	ECWH20332JVY	P 3300PF, J, 2KV	1	
C517,18	ECKD3D221JBP	C 220 PF, J, 2KV	2	
C519	ECQB1H682JF3	P 6800PF, J, 50V	1	
C520	ECA2EM470	E 47UF, 250V	1	
C521	ECKD2H102KB2	C 1000PF, K,500V	1	
C522	ECA160V33U	E 33UF, 160V	1	
C523	ECA1HM470	E 47UF, 50V	1	
C524	ECQE2224KF	P 0.22UF, K,250V	1	
C525	ECEA1HN100U	E 10UF, 50V	1	
C526	ERDS2TC0	C 0 OHM, 1/4W	1	
C527	ECEA1HN2R2U	E 2.2UF, 50V	1	
C531	ECKD2H101KB	C 100PF, K,500V	1	
C533	ECQF6183JZ	P 0.018UF, J,630V	1	ECQF6223JZ
C534	ECQF4153JZ	P 0.015UF, J,400V	1	
C536	ECWH20682JVB	P 6800PF, J, 2KV	1	
C537	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C701	ECKD3D271KBP	C 270PF, K, 2KV	1	
C702	ECQE2824KF	P 0.82UF, J,250V	1	
C704,05	ECQE1106KF	P 10UF, K,250V	2	
C754	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C802-04	ECKDAE472ZE	C 4700PF, Z,	3	
C805,06	ECQU2A224MN	P 0.22UF, M,250V	2	Δ
C807	ECKDNA102MB	C 1000PF, Z,	1	Δ
C808	ECA1VHG221	E 220UF, 35V	1	
C809	ECKDNA102MB	C 1000PF, Z,	1	⚠
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C815	ECKD3D122KBP	C 1200PF, K, 2KV	1	
C816,17	ECKDNA102MB	C 1000PF, Z,	2	Δ
C819	ECKD3A681KBP	C 680PF, K, 1KV	1	
C820	EC0S2GP221BB	E 220UF, 400V	1	
C822	EC0S2GP221BB	E 220UF, 400V	1	
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
		, .,,		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C828	ECQB1H471JF	P 470PF, J, 50V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D152KBP	C 1500PF, K, 2KV	1	
C833	EC0S2CA681BB	E 680UF, 160V	1	
C834	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C835	ECA1AM222	E 2200UF, 10V	1	
C836	EEUFC1A102	E 1000UF, 10V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C838	ECA1CHG471	E 470UF, 16V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C843	ECCF1H270JC	C 27PF, J, 50V	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD3A102KBP	C 1000PF, K, 1KV	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C872	ECA1CM471	E 470UF, 16V	1	
C873	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C874	ECKDNA102MB	C 1000PF, Z,	1	Δ
C876	ECKF1H223ZF	C 0.022UF, Z, 50V	1	
C879	ECKD2H561KB2	C 560PF, K,500V	1	
C880	ECA1EM472	E 4700UF, 25V	1	
C881	ECA2EHG100	E 10UF, 250V	1	
C883	ECA2EHG100	E 10UF, 250V	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CHG471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1EEN100B	E 10UF 25V	1	
C1001	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1002	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1004	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1005	ECA1HM100	E 10UF, 50V	1	
C1006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1007	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1009	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1010,11	ECA1CM101	E 100UF, 16V	2	
C1012,13	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1014	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1015	ECEA1HN100U	E 10UF, 50V	1	
C1016	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1017	ECA1CM471	E 470UF, 16V	1	
C1018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1019	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1037	ECKD1H181KB	C 180PF, K, 50V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1051	ECA1CM101	E 100UF, 16V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101P	E 100UF, 6.3V	1	
C1103-10	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C1115	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1119-29	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ1XC1H220J	C 22PF, J, 50V	2	
C1133-36	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1142	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1150	ECJ1VF1E104Z	C 0.1UF, Z, 25V	1	
C1153	ECJ1VB1H103K	C 0.10F, Z, 25V	1	
C1156	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1150	TCUY0J335MBM	C 3.3UF, 6.3V	2	F1K0J335A003
C1157,58	EEVHB1C100	E 10UF, 16V	2	FIROUSSAUSS
C1159,60 C1161	EEVHB0G221	E 220UF, 4V	1	
C1161	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1162 C1163	EEVHB0J101P	E 100UF, 6.3V	1	
C1163	ECJ1XF1C104Z		1	
		C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z ECJ1XF1C104Z	C 1UF, Z, 16V	1	
C1166	EEVHB1C104Z	C 0.1UF, Z, 16V		
C1167		E 100UF, 16V	1	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1300	EEVHB0G221	E 220UF, 4V	1	
C1301	EEVHB0G101	E 100UF 4V	1	
C1302	EEVHB0J470	E 47UF, 6.3V	1	
C1303	EEVHB1C470	E 47UF, 16V	1	
C1304	EEVHB0J470	E 47UF, 6.3V	1	
C1305	EEFUD0J101R	E 100UF	1	
C1308	EEVHB1C470	E 47UF, 16V	1	
C1309-12	EEVHB0J470	E 47UF, 6.3V	4	
C1315	EEVHB0G101	E 100UF 4V	1	
C1317	EEVHB0G101	E 100UF 4V	1	
C1318,19	EEVHB1C470	E 47UF, 16V	2	
C1320	EEVHB0G101	E 100UF 4V	1	
C1324,25	EEVHB1C100	E 10UF, 16V	2	
C1329	EEVHB1H1R0	E 1UF, 50V	1	
C1331	EEVHB0J470	E 47UF, 6.3V	1	
C1332,33	EEVHB0G101	E 100UF 4V	2	
C1334	EEVHB0G221	E 220UF, 4V	1	
C1338	EEVHB0G101	E 100UF 4V	1	
C1339	EEVHB0G221	E 220UF, 4V	1	
C1340,41	EEVHB1C100	E 10UF, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1342-44	EEVHB0G101	E 100UF 4V	3	
C1345	EEVHB0G221	E 220UF, 4V	1	
C1347	EEVHB0G101	E 100UF 4V	1	
C1348	EEVHB0J470	E 47UF, 6.3V	1	
C1350	EEVHB0G101	E 100UF 4V	1	
C1351	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1352,53	EEVHB0G221	E 220UF, 4V	2	
C1354	EEVHB0J470	E 47UF, 6.3V	1	
C1355	EEVHB0G101	E 100UF 4V	1	
C1356	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1357	EEVHP1C100R	E 10UF, 16V	1	
C1358,59	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1360	EEVHB1C100	E 10UF, 16V	1	
C1361	EEVHB0G101	E 100UF 4V	1	
C1362	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1363	EEVHB0J470		1	
C1363 C1364-67	ECJ1VF1A105Z	E 47UF, 6.3V	4	
C1364-67	ECJ1VF1A1032 ECJ1VB1C563K	C 1UF, Z, 10V	1	
C1366 C1369-72	ECJ1VB1C363K	C 0.056UF, K, 16V C 0.1UF, Z, 16V	4	
C1373,74 C1376	ECJ2VF1C104Z ECJ2XB1H272K	C 0.1UF, Z, 16V C 2700PF, K, 50V	1	
C1376			1	
	ECJ2VF1H103Z	C 0.01UF, Z, 50V	-	
C1402,03	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1404,05	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1408,09	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1416	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1417	ECJ3YB0J335K	C 33UF, J, 25V	1	
C1418	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1419,20	ECJ1XC1H100D	C 10PF, D, 50V	2	
C1421,22	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1424	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1425	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1426	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1427	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1428	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1429,30	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1431,32	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1433,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1437	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1438-40	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1441	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1442	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1444-49	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1452,53	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1456,57	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1464	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1466	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1467	ECJ1XC1H820J	C 82PF, J, 50V	1	
C1468	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1471	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1476,77	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1478	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
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C1479	ECJ1VF1A105Z	C 1UF, Z, 10V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1486	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C1489	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1496	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1498	EEVHB0J470	E 47UF, 6.3V	1	
C1499,00	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1501	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1502	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1505	ECJ1XC1H180J	C 18PF, J, 50V	1	
C1506	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1509	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1510	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1511	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1512	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1514-23	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1525-27	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1528,29	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1520,23	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1530	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	+
C1533,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1535,54	ECJ1XC1H470J		1	
C1535	ECJ1XB1C104K	C 47PF, J, 50V C 0.1UF, Z, 16V	1	+
C1536 C1537,38	ECJ1VF1A105Z	C 1UF, Z, 10V	2	+
C1537,38 C1539,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1539,40 C1541	ECJ1VF1A105Z		1	
	ECJ1XB1C104K	C 1UF, Z, 10V	1	
C1542 C1543		C 0.1UF, Z, 16V	1	
C1545	ECJ1VF1A105Z ECJ1XB1C104K	C 1UF, Z, 10V	1	
		C 0.1UF, Z, 16V		
C1546,47	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1549-53	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1554	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1555-57	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1558	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1559	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1561-63	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1565-70	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1572-74	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1579	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1581	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1587	ECJ1VF1A105Z	C 1UF, Z, 10V	1	-
C1589	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1590,91	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1592	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1593,94	ECJ1XC1H330J	C 33PF, J, 50V	2	
C1595	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1597	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1598,99	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1601	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1603	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1606	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1607	ECJ1XC1H471J	C 470PF, J, 50V	1	
C1609	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1610	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1612,13	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1614	ECJ1XC1H101J	C 100PF, J, 50V	1	

ECJ1VF1A105Z	C 1UF, Z, 10V	1	
ECJ1VF1A105Z	C 1UF, Z, 10V	6	
ECJ1XC1H330J	C 33PF, J, 50V	1	
EEVHB1H1R0	E 1UF, 50V	1	
ECJ1VB1C103K	C 0.01UF, K, 16V	1	
ECJ1VF1A105Z	C 1UF, Z, 10V	3	
ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
ECJ1VF1A105Z	C 1UF, Z, 10V	2	
ECJ1VF1H103Z		2	
ECJ1VF1A105Z		5	
ECJ1XB1C104K		1	
ECJ1VF1A105Z		10	
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ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
EEVHB0G101	E 100UF 4V	2	
EEVHB0J470	E 47UF, 6.3V	1	
	EEVHB1H1R0 ECJ1VB1C103K ECJ1VF1A105Z ECJ1VF1A105Z ECJ1VF1A105Z ECJ1VF1A105Z ECJ1VF1A105Z ECJ1VF1A105Z ECJ1VB1C104K ECJ1VB1H103K ECJ1VF1A105Z ECJ1VB1H103Z ECJ1VF1H103Z ECJ1VB1C100R EEVHP1C100R ECJ1VB1H103Z ECJ1VB1H103Z ECJ1VB1H103Z ECJ1VB1H103Z ECJ1VB1H103Z ECJ1VB1H103Z ECJ1VB1C104K ECJ1VB1H103Z ECJ1VB1C104K ECJ1VB1C104K ECJ1VB1C104K ECJ1VB1C104K ECJ1VB1C104K ECJ1VB1C104K ECJ1VB1C104K	EEVHB1H1R0 E 1UF, 50V ECJ1VB1C103K C 0.01UF, K, 16V ECJ1VF1A105Z C 1UF, Z, 10V ECJ1VB1C104K C 0.1UF, Z, 16V ECJ1VB1H103K C 0.01UF, K, 50V ECJ1VB1H103K C 0.01UF, K, 50V ECJ1VF1A105Z C 1UF, Z, 10V ECJ1VB1H103K C 0.01UF, K, 50V ECJ1VF1A105Z C 1UF, Z, 10V ECJ1VB1H103K C 0.01UF, K, 50V ECJ1VF1A105Z C 1UF, Z, 10V ECJ1VB1H103K C 0.01UF, K, 50V ECJ1VF1A105Z C 1UF, Z, 10V ECJ1VF1A105Z C 1UF, Z, 50V ECJ1VF1A105Z C 1UF, Z, 50V ECJ1VF1A105Z C 1UF, Z, 50V ECJ1VF1A105Z C 0.01UF, Z, 50V ECJ1VF1H103Z C 0.01UF, Z, 50V EEVHP1C100R E 10UF, 16V EEVHP1C100R E 10UF, 2, 50V ECJ1VB1C103K C 0.01UF, Z, 50V ECJ1VB1C104K C 0.01UF, Z, 16V ECJ1XB1C104K C 0.01UF, Z, 16V ECJ1XB1C104K C 0.01UF, Z, 16V	EEVHB1H1R0

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1872,73	EEVHB0G101	E 100UF 4V	2	
C1874,75	EEFCD0G560R	56UF,	2	
C1920	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1927	ECJ1XB1C153K	C 0.015UF, Z, 16V	1	
C1929	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1935	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1937	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1938-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1942,43	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1944-47	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1949,50	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1951	EEVHB1A330	E 33UF, 10V	1	
C1953,54	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C1956	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1958	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1959	EEVHB1C470	E 47UF, 16V	1	
C1960,61	ECJ1XC1H330J	C 33PF, J, 50V	2	
C1964	ECJ1XC1H181J	C 180PF, J, 50V	1	
C1965	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1968-71	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1972	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1975	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1976	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1979-81	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1982	ECJ1XC1H080D	C 8PF, D, 50V	1	
C1983	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1984,85	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1986,87	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1988,89	EEVHP1E220	E 22UF, 25V	2	
C1990	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1991,92	ECJ1XB0J105K	C 1UF, K, 16V	2	1 1103003A003
C1994	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2001-04	ECJ2XB1H103K		4	
	ECEA1HN100U	C 1000PF, K, 50V	2	
C2007,08		E 10UF, 50V		
C2010 C2011	ECJ2VF1C104Z ECA1CM471	C 0.1UF, Z, 16V	1	-
		E 470UF, 16V		
C2012	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2016	ECA1HM100	E 10UF, 50V	1	
C2017	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2018	ECA1HM100	E 10UF, 50V	1	
C2019	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2021	ECA1HM3R3	E 3.3UF, 50V	1	
C2022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2024	ECA1HM100	E 10UF, 50V	1	
C2025	ECA1HMR47	E 0.47UF, 50V	1	
C2027	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029,30	ECJ2XC1H030C	C 3PF, C, 50V	2	
C2031,32	ECA1CM101	E 100UF, 16V	2	
C2033	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2034	ECA1CM101	E 100UF, 16V	1	
C2035	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2036	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2037	ECJ2XC1H070D	C 7PF, D, 50V	1	
C2038,39	ECJ2XC1H560J	C 56PF, J, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2043	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2045	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C2046	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2047	ECA1CM221	E 220UF, 16V	1	
C2049	ECA1CM221	E 220UF, 16V	1	
C2050	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2055	ECA1HM100	E 10UF, 50V	1	
C2057	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
			1	
C2308	ECA1HM100	E 10UF, 50V		
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2336	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2363	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2365	ECA1CM471	E 470UF, 16V	1	
C2366	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2367	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2368	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2370	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2371	ECA0JM222	E 2200UF, 6.3V	1	
C2372	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2373,74	ECEA1HNR33U	E 0.33UF, 50V	2	
C2376	ECA1CM221	E 220UF, 16V	1	
C2378	ECA1CM101	E 100UF, 16V	1	
C2380	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2394	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2396	ECA1VM470	E 47UF, 35V	1	
C2397	ECA1CM221		1	
		E 220UF, 16V	1	
C2398	ECA1CM101	E 100UF, 16V		
C2399	ECA1HM100	E 10UF, 50V	1	
C2400	ECA1CM471	E 470UF, 16V	1	
C2701	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2702	ECA0JM222	E 2200UF, 6.3V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1CM471	E 470UF, 16V	1	
C2705	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2706	ECA0JM222	E 2200UF, 6.3V	1	
C2707,08	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2709	ECA1CM471	E 470UF, 16V	1	
C2710	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2712	ECA1CM471	E 470UF, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2714	ECA1VM471	E 470UF, 35V	1	
C2715	ECA1AM331	E 330UF, 10V	1	
C2716	ECA1CM471	E 470UF, 16V	1	
C2901-03	ECKF1H103ZF	C 0.01UF, Z, 50V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2904	ECA1CM101	E 100UF, 16V	1	
C2905	ECA1VM101	E 100UF, 35V	1	
C2906	ECA1CM101	E 100UF, 16V	1	
C2907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C2908	ECA1VM101	E 100UF, 35V	1	
C2909,10	ECA1HM100	E 10UF, 50V	2	
C2913	ECQM2103KZ	P 0.01UF, K,200V	1	
C2914	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2915	ECQM2103KZ	P 0.01UF, K,200V	1	
C2916	ECA2AM100	E 10UF, 100V	1	
C2917	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2918	ECA1CM101	E 100UF, 16V	1	
C2919	ECA2CM100	E 10UF, 160V	1	
C2919	ECA2CM100	E 100F, 16V	1	
C2920	ECA1CM101		1	
C2921		E 220UF, 16V	1	
	ECWELLIANSZE	P 0.01UF, K,200V		
C2944	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2945	ECQM2103KZ	P 0.01UF, K,200V	1	
C2946	ECA2AM100	E 10UF, 100V	1	
C2947	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2948	ECA1CM101	E 100UF, 16V	1	
C2949	ECA2CM100	E 10UF, 160V	1	
C2950	ECA1CM101	E 100UF, 16V	1	
C2951	ECA1CM221	E 220UF, 16V	1	
C2953	ECA1VM101	E 100UF, 35V	1	
C2954	ECA1HM100	E 10UF, 50V	1	
C2973	ECQM2103KZ	P 0.01UF, K,200V	1	
C2974	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2975	ECQM2103KZ	P 0.01UF, K,200V	1	
C2976	ECA2AM100	E 10UF, 100V	1	
C2977	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C2978	ECA1CM101	E 100UF, 16V	1	
C2979	ECA2CM100	E 10UF, 160V	1	
C2980	ECA1CM101	E 100UF, 16V	1	
C2981	ECA1CM221	E 220UF, 16V	1	
C2984	ECA1HM100	E 10UF, 50V	1	
C3001,02	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3009-11	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3003-11	ECA1CM221	E 220UF, 16V	1	
C3012	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3014	ECA1CM101	E 100UF, 16V	1	. 1100000000000
			1	
C3022	ECJ2VF1C104Z ECA1CM101	C 0.1UF, Z, 16V		
C3023		E 100UF, 16V	1	
C3024,25	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3031	ECA1CM101	E 100UF, 16V	1	
C3035-37	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3039,40	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3042	ECA1CM221	E 220UF, 16V	1	
C3045-50	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C3053-61	ECJ2VF1C105Z	C 1UF, Z, 16V	9	
C3062,63	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3064	ECA1CM221	E 220UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3073	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3086,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3089	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3094	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3112,13	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C3114-16	ECA1CM221	E 220UF, 16V	3	
C3120	ECA1CM221	E 220UF, 16V	1	
C3160-63	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C3164	ECA1CM100	E 10UF, 16V	1	
C3165	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3166	ECA1CM101	E 100UF, 16V	1	
C3167	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3168	ECEA1CKA100	E 10UF, 16V	1	
C3169	ECA1CM221	E 220UF, 16V	1	
C3170,71	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3172	ECA1CM101	E 100UF, 16V	1	
C3175,76	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3352	ECA2AM220	E 22UF, 100V	1	
C3353	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3362	ECA2AM220	E 22UF, 100V	1	
C3363	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3372	ECA2AM220	E 22UF, 100V	1	
C3372	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3430	ECA1HM100	E 10UF, 50V	1	
C6715	ECKD3D681KBP	C 680PF, K, 2KV	1	
C6718	ECCD3D661KBP	C 22PF, K, 2KV	1	
	ECKDNA471MB		2	Δ
C6729,30		C 470PF, Z,		<u>157</u>
C6731,32	ECKD3D681KBP	C 680PF, K, 2KV	2	
C7002,03	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7007	ECCF1H220JC	C 22PF, J, 50V	1	
C7008	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7009	ECCF1H220JC	C 22PF, J, 50V	1	
C7010	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7011	ECCF1H220JC	C 22PF, J, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7017	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7018	ECCF1H220JC	C 22PF, J, 50V	1	
C7019	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7020	ECCF1H220JC	C 22PF, J, 50V	1	
C7021	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7022	ECCF1H220JC	C 22PF, J, 50V	1	
C7023	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C7090-95	ECKF1H102KB	C 1000PF, K, 50V	6	
C7101	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100PF, J, 50V	3	
C7108-11	EEVHB0J470	E 47UF, 6.3V	4	
C7112,13	ECJ2XC1H561J	C 560PF, J, 50V	2	
C7114	ECJ2VC1H821J	C 820PF, J, 50V	1	
C7115,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7118	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7119	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7120	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7121,22	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7123-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C7126-28	EEVHB0J470	E 47UF, 6.3V	3	
C7129,30	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7131-34	ECJ2XC1H561J	C 560PF, J, 50V	4	
C7135	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7136	EEVHB1C470	E 47UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100PF, J, 50V	4	
C7141	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7141	ECJ2VF1H104Z		1	
	+	C 0.1UF, Z, 50V		
C7143	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7145-48	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7151	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7152	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7154	EEVHB1C470	E 47UF, 16V	1	
C7155-57	ECJ3YB0J475K	C 47UF, J, 25V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECJ3YB0J475K	C 47UF, J, 25V	1	
C7168	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7169,70	ECJ3YB0J475K	C 47UF, J, 25V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2XB1H823K	C 0.082UF, K, 50V	1	
C7174	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7175	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7176	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7178,79	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C7180	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7181	EEVHB0G101	E 100UF 4V	1	
C7182	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
	EEVHB1C470	E 47UF, 16V	1	
C7183 C7184			1	
	ECJ2VF1H104Z	C 0.1UF, Z, 50V		
C7185-96	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C7197	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7301-04	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7305	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7306	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7307	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7308	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7309	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7310	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7311	ECA1CM101	E 100UF, 16V	1	
C7314	ECA1CM101	E 100UF, 16V	1	
C7315	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7317	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7709	ECJ2XC1H181J	C 180PF, J, 50V	1	
C7710	ECJ2XC1H271J	C 270PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7711	ECJ2XC1H221J	C 220PF, J, 50V	1	
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1EM471	E 470UF, 25V	1	
C9601	ECA1VMH470	,	1	
		E 47UF, 35V	1	
C9602	ECKF1H101KB	C 100PF, K, 50V	_	
C9603	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECKF1H471KB	C 470PF, K, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
D001	MA3150H	ZENER DIODE	1	MAZ31500H
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA3150H	ZENER DIODE	1	MAZ31500H
D2,D3	TJSF20016	16P CONNECTOR	2	K1KB16A00050
D4	K1KA03A00172	3P CONNECTOR	1	
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	K1KA06A00180	6P CONNECTOR	1	
D12	K1KA03A00172	3P CONNECTOR	1	
D012	MA3056M	ZENER DIODE	1	MAZ30560M
D13	K1KA04A00195	4P CONNECTOR	1	MAZOOOOM
D013	MA3056M	ZENER DIODE	1	MAZ30560M
				WAZSUSOUW
D14,15	K1KA04A00195	4P CONNECTOR	2	
D18	K1KA02A00188	2P MINI	1	KAKBOO A SSSS :
D21-25	TJS5A9420	8P CONNECTOR	5	K1KB08A00054
D353,54	MA165	DIODE	2	MA2C165
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D451	MA152K	DIODE	1	MA3X152K
D452	MA165	DIODE	1	MA2C165
D453	EU02	DIODE	1	
D454,55	MA165	DIODE	2	MA2C165
D456	TVSA81004	DIODE	1	B0JAME000009
D457-60	AM01Z	DIODE	4	B0EAKC000002
D462	MA723TA	DIODE	1	MA2C72300F
L-102	WICH EN IV	JIODE	<del>- '-</del>	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	B0KZ0000001	DIODE	1	
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D508,09	MA165	DIODE	2	MA2C165
D510,11	D1NL40V70	DIODE	2	B0HALP000002
D514	MA4068L	ZENER DIODE	1	MAZ40680L
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D551	EU02	DIODE	1	
D701	D1NL40V70	DIODE	1	B0HALP000002
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	B3PAA0000153	DIODE	1	Δ
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	
D815	MA4220M	ZENER DIODE	1	MAZ42200M
D816	MA165	DIODE	1	MA2C165
D819-21	ERA22-04	DIODE	3	B0HAGP000001
D828,29	FML-12S	DIODE	2	2011/101 000001
D831	FMGG2CS	DIODE	1	B0HAPV000011
D832	M1FS4	DIODE	1	BOTTAL VOCCOTT
D833,34	MA165	DIODE	2	MA2C165
D851	FML22S	DIODE	1	B0HFRJ000011
D860	FMGG26S	DIODE	1	B0HANR000014
D869,70	MA165	DIODE	2	MA2C165
D871	ERA22-02	DIODE	1	B0HAGM000001
D875,76	ERZV14D511	VARISTOR	2	BOTIAGNIOCOCCT
D884	B3PAA0000153	DIODE	1	<u>A</u>
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	****
D891,92	MA4220M	ZENER DIODE	2	MAZ42200M
D893	ERC13-08	DIODE	1	B0EAKT000022
D894	MA165	DIODE	1	MA2C165
D1001,02	MA152K	DIODE	2	MA3X152K
D1005	MA4068M	ZENER DIODE	1	MAZ40680M
D1010	MA4068M	ZENER DIODE	1	MAZ40680M
D1011	LNG201RFC	DIODE	1	****
D1014	MA4068M	ZENER DIODE	1	MAZ40680M
D1015	B3AEA0000033	DIODE ZENER DIODE	1	MA740000#
D1016	MA4068M	ZENER DIODE	1	MAZ40680M
D1050	MA152K	DIODE	1	MA3X152K
D1104	MA152K	DIODE	1	MA3X152K
D1300	MA152K	DIODE	1	MA3X152K
D1301	MA157A	DIODE	1	MA3X157A
D1302-04	MA152K	DIODE	3	MA3X152K
D1306	MA152K	DIODE	1	MA3X152K
D1307	MA704A	DIODE	1	MA3X704A
D0000	MA3033L	ZENER DIODE	1	MAZ30330L
D2002 D2303,04 D2305	MA152K B0BA5R600016	DIODE	1	MA3X152K

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
G1	TJS1A8180	12P CONNECTOR	1	K1KA12B00041
G2	K1KA05B00047	5P CONNECTOR	1	
G3	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
114	TICECCOE	DUONO DIN (25D)		KAKA OF DOOD A
H1	TJSF26935	PHONO PIN (35P)	1	K1KA35B00004
H3	TJS1A8100	PHONO PIN (4P)	1	K1KA04B00056
H4,H5	TJS1A8090	PHONO PIN (3P)	2	K1KA03B00045
IC451	LA78045	LINEAR IC	1	C1AA00000521
IC751	AN6914	LINEAR IC *	1	
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC808	SE139N	LINEAR IC *	1	
IC810	AN7812	LINEAR IC *	1	
IC831	C0DAAZH00009	IC	1	
IC881	MIP0254SPSCF	INTEGRATED CIRCUIT	1	
IC1001	S-80843ALY-Z	LINEAR IC *	1	C0EAH0000067
IC1002	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	M62392FP	IC	1	C0FBBD000083
IC1005	C0CACBF00001	IC	1	
IC1006	C0CACAG00001	IC	1	
IC1101	C2CBYF000028	IC	1	
IC1102	TVRN010	IC	1	C3FBMD000050
IC1103	C0JBAB000591	IC	1	
IC1104	TVRN009	IC	1	C3EBHC000020
IC1106	C3ABPG000102	IC	1	
IC1107	C0JBAZ001839	IC	1	
IC1108	C0JBAE000231	IC	1	
IC1109	AN78L05	LINEAR IC	1	
IC1301	C1AB00001826	IC	1	
IC1302	C1AB00001703	IC	1	
IC1304	C1AB00001707	IC	1	
IC1305	M52055FP	LINEAR IC	1	C1AB00000734
IC1306	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1308	C3ABPJ000017	IC	1	
IC1309	AN15935A	IC	1	
IC1311	C0CBCAD00006	IC	1	
IC1312	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1313	TC7WU04FU	IC	1	C0JBAB000339
IC1315	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1319	C0CBCAD00006	IC	1	
IC1320	C0JBAM000095	IC	1	
IC1321	C3ABPJ000048	IC	1	
IC1322	C0CBCAD00006	IC	1	
IC1323	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC1324	C0CBCAD00006	IC	1	
IC1331	C3ABPJ000048	IC	1	
IC1332,33	C0CBCBD00006	IC	2	
IC1334	C0CBCBD00005	IC	1	
IC1337	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
	PQ07VZ012ZP	IC	2	C0DBEZG00004
IC1341,42				

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1856	TC7S66F	MOS IC (CMOS LOGIC) *	1	
IC2001	AN78L08	LINEAR IC *	1	
IC2002	C1AB00001871	IC	1	
IC2003	AN78M05	LINEAR IC *	1	
IC2301	C1AA00000664	IC	1	
IC2305	AN7108	LINEAR IC	1	
IC2702	C0CACAG00001	IC	1	
IC2703	SI-3050CA	HYBRID IC	1	C0CAADH00003
IC2704	AN78M09	LINEAR IC *	1	
IC3001	AN78L05	LINEAR IC	1	
IC3002	PQ09SZ1T	IC	1	C0CBAHG00005
IC3003	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3004	AN15852A	IC	1	
IC7001,02	C5AA00000196	IC	2	
IC7101	AN78L05M	LINEAR IC	1	
IC7102	C0CBCBD00006	IC	1	
IC7103	C0JBAB000003	IC	1	
IC7104	C0FBBH000047	IC	1	
IC7105,06	TL084CNS	IC	2	C0AAFB000011
IC7107	C1AB00001812	IC	1	
IC7108	AN78L12M	LINEAR IC *	1	
IC7109	AN79L12M	IC	1	
IC7110	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7301	TVRJ936	IC	1	C3EBJC000037
IC7302	BA7603F	IC	1	0022000007
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	CIADOUOUTTO
IC9601	AN6562	LINEAR IC *	1	
103001	AITOSOZ	LINEARTO	<u>'</u>	
JA2-11	ERJ6GEY0R00	M 0 OHM, 1/10W	10	
JA13-32	ERJ6GEY0R00	M 0 OHM, 1/10W	20	
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 △
JK371	TJSC00700	CRT SOCKET	1	
		<u> </u>		K3B10CA00006 🗥
JK391	TJSC00700	CRT SOCKET	1	K3B10CA00006 🗥
JK801	TJC6137	EARTH LUG	1	
JK3201	TJB4G637	TERMNAL	1	
JK3401	TJB0A639	TERMINAL	1	
JS12	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS17	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7102	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7103	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
JS7106	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA3	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA4	J0JCC0000100	M 0 OHM, 1/16W	1	
JSA21	J0JCC0000100	M 0 OHM, 1/16W	1	
JSA23	J0JCC0000100	M 0 OHM, 1/16W	1	
JSA27-30	J0JCC0000100	M 0 OHM, 1/16W	4	
JSA45	J0JCC0000100	M 0 OHM, 1/16W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JSDG007	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG014-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG019-22	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG030	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG035	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG042	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG046-48	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSDG051,52	J0JCC0000100	M 0 OHM, 1/16W	2	
JSDG058	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG064	J0JCC0000100	M 0 OHM, 1/16W	1	
JSDG068-71	J0JCC0000100	M 0 OHM, 1/16W	4	
JSDG075-94	J0JCC0000100	M 0 OHM, 1/16W	20	
JSDG096-03	J0JCC0000100	M 0 OHM, 1/16W	8	
JSDG110	J0JCC0000100	M 0 OHM, 1/16W	1	
JSDG117	J0JCC0000100	M 0 OHM, 1/16W	1	
JSDG122-24	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSDG135	J0JCC0000100	M 0 OHM, 1/16W	1	
JSDG139	J0JCC0000100	M 0 OHM, 1/16W	1	
		, , , , , , , , , , , , , , , , , , , ,	<u> </u>	
JSU6	J0JCC0000100	M 0 OHM, 1/16W	1	
			<u> </u>	
K1	TJS169690	4P CONNECTOR	1	K1KA04A00111
K2	K1KA05A00139	5P CONNECTOR	1	THAT TAVE III
		OI OOMMEOTOR	+ '	
KA1	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
IVAI	100170000	ZI GOMMEGTON	<u>'</u>	KIIKAUZBUUUTT
L003	EXCELDR35C	BEAD CHOKE	1	
L005	EXCELDR35C	BEAD CHOKE	1	
L006	ELJNC15NJF	CHIP COIL	1	
L007,08	ELJNC39NKB	CHIP COIL	2	
L007,08 L009	EXCELDR35C	BEAD CHOKE	1	
L351	ELEBD101KA	PEAKING COIL	1	
L351 L352			1	
	ELESE100JA	PEAKING COIL	-	
L353	ELESN1R0JA	PEAKING COIL	1	
L354	ELESN6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESN6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL	1	
L393	ELESN1R0JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL	1	
L452,53	EXCELDR35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506,07	EXCELDR25C	BEAD CHOKE	2	
L508	EXCELSA24	BEAD CHOKE	1	
L510	EXCELDR25C	BEAD CHOKE	1	
		BEAD CHOKE	1	
L511	EXCELSA26			
	EXCELSA26 EXCELDR25C	BEAD CHOKE	1	
L512		BEAD CHOKE BEAD CHOKE	1	
L511 L512 L531 L555	EXCELDR25C			

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L702	ELC18B820E	CHOKE COIL	1	Tromaine
L703	EXCELSA35	BEAD CHOKE	1	
L706	ELC18B680E	CHOKE COIL	1	
L741	ELEIE101KA	CHOKE COIL	1	ELEKE101KA
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELDR35C	BEAD CHOKE	1	
L823,24	EXCELSA35	BEAD CHOKE	2	
L827,28	G0A220GA0002	CHOKE COIL	2	
L830	EXCELDR35C	BEAD CHOKE	1	
	EXCELDR35C		1	
L838		BEAD CHOKE	1	COAFCOC A0004
L841	TALFP15B560K	CHOKE COIL		G0A560GA0001
L843-45	EXCELDR35C	BEAD CHOKE	3	
L846	EXCML45A910H	BEAD CHOKE	1	
L851	EXCELSA35	BEAD CHOKE	1	
L853	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	G0A101GA0017	CHOKE COIL	1	
L870	ELF24V018A	LINE FILTER	1	<u> </u>
L872	ELF24V019A	LINE FILTER	1	<u> </u>
L873	ELF24V018A	LINE FILTER	1	Δ
L874	EXCELSA35	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L891-93	G0A150HA0015	CHOKE COIL	3	
L1052	EXCELSA35	BEAD CHOKE	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	G1C4R7MA0063
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	G1C3R3MA0063
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1309-16	TALC325T4R7M	CHIP INDUCTOR COIL	8	G1C4R7MA0063
L1317,18	TALC168T3R3K	CHIP INDUCTOR COIL	2	G1C3R3K00007
L1319,20	TALC168T6R8K	CHIP INDUCTOR COIL	2	G1C6R8K00005
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1327	G1C100KA0008	INDUCTOR COIL	1	G1C4I(7INIA0003
L1329	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
		INDUCTOR COIL	1	G1C4R7WIA0003
L1330	G1C100KA0008	CHIP INDUCTOR COIL		C1C4P7MA0062
L1331	TALC325T4R7M		1	G1C4R7MA0063
L1333-42	TALC325T4R7M	CHIP INDUCTOR COIL	10	G1C4R7MA0063
L1343	G1C100KA0008	INDUCTOR COIL	1	
L1350	J0JGC0000021	CHIP INDUCTOR COIL	1	
L1352	G1C100KA0008	INDUCTOR COIL	1	04045======
L1353	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1360-63	J0JGC0000021	CHIP INDUCTOR COIL	4	
L1364,65	J0JCC0000100	M 0 OHM, 1/16W	2	
L1366,67	J0JGC0000021	CHIP INDUCTOR COIL	2	
L1650-52	J0JGC0000021	CHIP INDUCTOR COIL	3	
L1653	G1C100KA0008	INDUCTOR COIL	1	
L1654	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1655	G1C100KA0008	INDUCTOR COIL	1	

D. C.N.	B. (N.	D (N 0 D i d)		
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1801,02	G1C100KA0008	INDUCTOR COIL	2	
L1803	J0JGC0000021	CHIP INDUCTOR COIL	1	
L1804-06	G1C100KA0008	INDUCTOR COIL	3	
L1852	G1C2R2K00006	INDUCTION COIL	1	
L1853,54	TALC168T100K	CHIP INDUCTOR COIL	2	G1C100KA0009
L1857	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1858	J0JCC0000100	M 0 OHM, 1/16W	1	
L1859-61	TALC168T1R0K	CHIP INDUCTOR COIL	3	G1C1R0K00005
L1862,63	TALC168T5R6K	CHIP INDUCTOR COIL	2	G1C5R6K00007
L1864,65	J0JCC0000100	M 0 OHM, 1/16W	2	
L2001,02	ELESE4R7KA	PEAKING COIL	2	
L2003	EXCELDR35C	BEAD CHOKE	1	
L2004	EXCELSA39	BEAD CHOKE	1	
L2005	ELESN560KA	PEAKING COIL	1	
L2006	ELESE6R8KA	PEAKING COIL	1	
L2009	EXCELSA35	BEAD CHOKE	1	
L2013	EXCELDR35C	BEAD CHOKE	1	
L2016	EXCELDR35C	BEAD CHOKE	1	
L2017-21	EXCELSA35	BEAD CHOKE	5	+
L2022	J0JCC0000100	M 0 OHM, 1/16W	1	
L2022 L2023	TSK1032	CHIP INDUCTOR	1	J0JCC0000100
L2025 L2026	EXCELSA39	BEAD CHOKE	1	200000100
L2020 L2027	EXCELSA35	BEAD CHOKE	1	
L2027 L2028	EXCELSA39	BEAD CHOKE	1	
L2030	EXCELSA35	BEAD CHOKE	1	
L2031	J0JCC0000241	CHIP INDUCTOR	1	10.10.00000100
L2032	TSK1032	CHIP INDUCTOR	1	J0JCC0000100
L2035	J0JCC0000241	CHIP INDUCTOR	1	
L2036	TSK1032	CHIP INDUCTOR	1	J0JCC0000100
L2038	TSK1032	CHIP INDUCTOR	1	J0JCC0000100
L2040	TSK1032	CHIP INDUCTOR	1	J0JCC0000100
L2050	EXCELSA39	BEAD CHOKE	1	
L2051,52	EXCELDR35C	BEAD CHOKE	2	
L2053	EXCELSA39	BEAD CHOKE	1	
L2310	EXCELSA35	BEAD CHOKE	1	
L2701	EXCELDR35C	BEAD CHOKE	1	
L2702	TALFP15B560K	CHOKE COIL	1	G0A560GA0001
L2901-03	EXCELSA35	BEAD CHOKE	3	
L2904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2941-43	EXCELSA35	BEAD CHOKE	3	
L2944	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L2971-73	EXCELSA35	BEAD CHOKE	3	
L2974	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L3002	ELESE4R7JA	PEAKING COIL	1	
L3003,04	EXC3BB221H	BEAD CHOKE	2	
L3007-12	EXC3BB221H	BEAD CHOKE	6	
L6719,20	EXCELDR25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
	ELJPA100KB	CHIP INDUCTOR	1	
L7101				
L7102	J0JHC0000035	CHIP INDUCTOR	1	
L7301	ELJPA100KB	CHIP INDUCTOR	1	-
L7704	ELESE100JA	PEAKING COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB2	K1KA03A00172	3P CONNECTOR	1	
LC1101-04	TLK212T256AL	EMI FILTER	4	J0HAAB000012
LC1105,06	J0HABB000003	LC FILTER	2	
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110	TLK20LFA103M	EMI FILTER	1	J0HABB000009
LC1111-13	J0HABB000003	LC FILTER	3	
LC1114	J0HABB000004	LC FILTER	1	
LC1115-20	TLK20LFA103M	EMI FILTER	6	J0HABB000009
LC1121-24	J0HABB000004	LC FILTER	4	
LC1125-46	TLK20LFA103M	EMI FILTER	22	J0HABB000009
LC1147	ELKE103FA	NOISE FILTER	1	
LC1151-53	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LG1	K1KA07A00096	7P CONNECTOR	1	
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG2 02	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LR2	K1KA03A00172	3P CONNECTOR	1	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	K1KA03A00172	3P CONNECTOR	1	
P11	TJS3A9140	CONNECTOR	1	K1KA08B00121
P12-14	TJS3A9150	CONNECTOR	3	K1KA08B00122
P15	TJS3A9140	CONNECTOR	1	K1KA08B00121
	1000/10110			
Q001	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	1020.00%
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	212/01/00021
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375.76	2SA1480	TRANSISTOR	2	_ 15,5,1000024
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	5 15AA11000024
Q451	2SC3311A	TRANSISTOR	1	2SC3311AW
Q501	2SK2962	FET	1	23000 I AV
Q551	2SC5612	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q555	2SK1608	FET	1	230147302
Q556	2SK1006 2SK1365LB	TRANSISTOR	1	+
			1	2SC3311AW
Q557 Q701	2SC3311A	TRANSISTOR FET	1	2303311AVV
Q701 D805	2SK2538000LB	+		
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	2002244 4344
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SC3311A	TRANSISTOR	1	2SC3311AW
Q891	2SC1473	TRANSISTOR TRANSISTOR	2	2SC14730E 2SD0601AR
Q1001,02	2SD601A-R			

Part No. 2SD601A-R 2SB709A 2SD601A-R 2SB709A 2SD601A-R 2SB709A 2SD601A-R 2SB709A 2SB709A	Part Name & Description TRANSISTOR	Pcs 1 1 2 1 1 1 1 1 1 1 1 3 2 3 2 1	Remarks  2SD0601AR  2SB0709A  2SD0601AR  2SB0709A  2SD0601AR
2SB709A 2SB709A 2SB709A 2SB709A 2SB709A 2SB601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SB709A 2SB709A	TRANSISTOR	1 2 1 1 1 1 1 1 1 1 3 2 3 3 2 2 2	2SB0709A 2SD0601AR 2SB0709A 2SD0601AR 2SB0709A 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SB709A 2SD601A-R	TRANSISTOR	2 1 1 1 1 1 1 1 1 3 2 3 2	2SD0601AR 2SB0709A 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SB709A 2SB709A 2SB709A 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SB709A	TRANSISTOR	1 1 1 1 1 1 1 1 3 2 3 2	2SB0709A 2SD0601AR 2SB0709A 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SB709A 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R	TRANSISTOR	1 1 1 1 1 1 1 3 2 3 2	2SD0601AR 2SB0709A 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SB709A 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SB709A	TRANSISTOR	1 1 1 1 1 1 3 2 3 2	2SB0709A 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SB709A	TRANSISTOR	1 1 1 1 1 3 2 3 2	2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR	1 1 1 1 3 2 3 2 2	2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SB601A-R 2SB709A 2SB709A	TRANSISTOR	1 1 1 3 2 3 2 2	2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR
2SD601A-R 2SD601A-R 2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 3 2 3 2 2	2SD0601AR 2SD0601AR 2SD0601AR 2SD0601AR 2SD0601A
2SD601A-R 2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 3 2 3 2 2	2SD0601AR 2SD0601AR 2SD0601AR 2SD0601A
2SD601A-R 2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	3 2 3 2 2	2SD0601AR 2SD0601AR 2SD0601A
2SD601A-R 2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2 3 2 2	2SD0601AR 2SD0601A
2SC2412K 2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	3 2 2	2SD0601A
2SD601A 2SD601A-R 2SB709A 2SB709A	TRANSISTOR TRANSISTOR TRANSISTOR	2	
2SD601A-R 2SB709A 2SB709A 2SB709A	TRANSISTOR TRANSISTOR	2	
2SB709A 2SB709A 2SB709A	TRANSISTOR		2SD0601AR
2SB709A 2SB709A		1	
2SB709A	TRANSISTOR		2SB0709A
		2	2SB0709A
2SB709A	TRANSISTOR	2	2SB0709A
	TRANSISTOR	1	2SB0709A
2SB709A	TRANSISTOR	2	2SB0709A
2SB709A	TRANSISTOR	1	2SB0709A
			2SB0709A
			2SD0703A 2SD0601AR
			2SD0601AK
			23D0001A
			VNIOCEO4
			XN06501
			2SB0709A
			2SD0601A
2SD1030	TRANSISTOR	2	
2SB709A	TRANSISTOR	4	2SB0709A
KN6501	TRANSISTOR	1	XN06501
JN2215	TRANSISTOR	1	UNR2215
2SD1030	TRANSISTOR	1	
SB709A	TRANSISTOR	2	2SB0709A
2SD601A-R	TRANSISTOR	1	2SD0601AR
SB709A	TRANSISTOR	2	2SB0709A
2SB709A	TRANSISTOR	4	2SB0709A
2SD601A-R	TRANSISTOR	2	2SD0601AR
2SB709A	TRANSISTOR	1	2SB0709A
SD601A-R	TRANSISTOR	1	2SD0601AR
2SB709A	TRANSISTOR	1	2SB0709A
2SD601A-R	TRANSISTOR	1	2SD0601AR
		1	2SD0601AR
			2SD0601AR
			2SB0709A
			2SB0709A
			2SD0601AR
			2SB0709A
			2SD0601AR
2SC3311A	TRANSISTOR	3	2SC3311AW
2SC1318A	TRANSISTOR	2	2SC1318AW
2SC1318A	TRANSISTOR	1	2SC1318AW
	SB709A SD601A-R SD1030 (N6501 SB709A SD601A SD1030 SB709A SD601A SD1030 SB709A SD601A-R SB709A	SB709A	SB709A         TRANSISTOR         3           SD601A-R         TRANSISTOR         1           SD601A         TRANSISTOR         5           SD1030         TRANSISTOR         1           SB709A         TRANSISTOR         2           SB709A         TRANSISTOR         2           SD601A         TRANSISTOR         2           SD1030         TRANSISTOR         2           SB709A         TRANSISTOR         4           M6501         TRANSISTOR         1           M82215         TRANSISTOR         1           SB709A         TRANSISTOR         1           SB709A         TRANSISTOR         2           SB709A         TRANSISTOR         2           SB709A         TRANSISTOR         2           SB709A         TRANSISTOR         1           SB709A         TRANSISTOR

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS113330	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R419	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERDS2TJ393	C 39KOHM, J,1/4W	1	
R454	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R455	ERG3FJ331H	M 330 OHM, J, 3W	1	
R456	ER0S2CKF3921	M3.92KOHM, F,1/4W	1	
R450	ERJ3EKF2431	M24.3KOHM, 1/16W	1	
R458	ERJ6ENF3481		1	
		M3.48KOHM, 1/10W C 1 OHM, J,1/2W	1	
R460	ERDS1FJ1R0 ERDS2TJ103			
R461		C 10KOHM, J,1/4W	1	
R462	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R463	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R464	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R465	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R466	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R467	ERDS2TC0	C 0 OHM, 1/4W	1	
R468	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R472-74	ERDS2TJ331	C 330 OHM, J,1/4W	3	
R475	ER0S2CKF3011	M3.01KOHM, F,1/4W	1	
R476	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R477	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R478	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R501	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS101D	M 100 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R505	ERX2FZJR18H	M0.18 OHM, J, 2W	1	
R506	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R508	ERG1SJ150P	M 15 OHM, J, 1W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R516	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R517,18	ERDS2TJ203	C 20KOHM, J,1/4W	2	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF3832	M38.3KOHM, F,1/4W	1	EROS2CKF3832
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CKF3321	M3.32KOHM, F,1/4W	1	
R524	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R525	TSF19632	FUSE	1	K5Y632Z00001
R526	ERQ12HJ330P	F 33 OHM, J,1/2W	1	
R527	ER0S2CKF2552	M25.5KOHM, F,1/4W	1	
R528	ER0S2CKF8251	M8.25KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R541,42	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R543	ERDS2TC0	C 0 OHM, 1/4W	1	
R544	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R552	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R553	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R652,53	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R655-57	ERJ6GEYJ181	M 180 OHM,J,1/10W	3	
R658	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R761	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R762	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R763	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R764	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	Δ
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R831	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R833	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R834	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R835	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R836	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R837	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R845	ERX1SJR27P	M0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R855	ERG3FJS470D	M 47 OHM, J, 3W	1	
R857		FUSE	1	K5Y632700004
R867	TSF19632	M 15KOHM, J, 3W	1	K5Y632Z00001
	ERG3FJ153H	S 1MOHM, K,1/2W	1	Δ
R870 R871	ERC12ZGK105 ERDS2TJ332	C 3.3KOHM, J,1/4W	1	\(\frac{1}{2}\)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R872	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R873	ERG1SJ102	C 1KOHM, J,1/2W	1	
R877	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	
R890	ERG1SJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R892,93	ERG3FJS222D	M 2.2KOHM, J, 3W	2	
R894	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R1001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1002	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R1003	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1004	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1005	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1006	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1007	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	+
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1010	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1011	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1013	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1014	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1016	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	+
R1020	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1021	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1022	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1023	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1025	ERJ3GEYJ102		1	
R1020		M 1KOHM,J,1/16W	1	
	ERJ3GEYJ332	M 3.3KOHM,J,1/16W		DOCD404 IA002
R1028,29	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1030	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1035,36	ERJ6GEY0R00	M 0 OHM, 1/10W	2	-
R1037	J0JCC0000100	M 0 OHM, 1/16W	1	-
R1038	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	-
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	-
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	-
R1050	ERDS2TJ102	C 1KOHM, J,1/4W	1	-
R1051	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R1052	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1053,54	J0JCC0000100	M 0 OHM, 1/16W	2	
R1055	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1056-59	J0JCC0000100	M 0 OHM, 1/16W	4	
R1060 02	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R1060,61	J0JCC0000100	M 0 OHM, 1/16W	2	
R1062	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	1
D4000	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1063			_	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1072	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	Remarks
R1074	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1075	J0JCC0000100	M 0 OHM, 1/16W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1105,04	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	D00B1013A002
	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1111,12 R1113			1	DUGBTUTJAUUZ
	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	DOCD404 IA002
R1115	ERJ3GEYJ101	M 100 OHM,J,1/16W		D0GB101JA002
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D00D404 IA000
R1118-21	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R1122	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	J0JCC0000100	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	J0JCC0000100	M 0 OHM, 1/16W	1	
R1132	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1149	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1150,51	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1152	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161-63	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1167	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1169	J0JCC0000100	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1178	J0JCC0000100	M 0 OHM, 1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1188-93	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1212,13	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
	1	1		

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1249,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	J0JCC0000100	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1304	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R1305	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R1307	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1309	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1312	J0JCC0000100		1	
	+	M 0 OHM, 1/16W	_	
R1313	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R1318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1325	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1350	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1354	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	
R1356	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1359	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1360	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1361	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1364	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1365	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1366-69	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R1370,71	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1382	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1383,84	J0JCC0000100	M 0 OHM, 1/16W	2	
R1385	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1386	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1387	J0JCC0000100	M 0 OHM, 1/16W	1	
R1388	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1389	J0JCC0000100	M 0 OHM, 1/16W	1	
R1390	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1391	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1393	ERJ3EKF2400	M 240 OHM, 1/16W	1	
	ERJ3EKF2400 ERJ3GEYJ471	· · · · · · · · · · · · · · · · · · ·	_	+
R1394	+	M 470 OHM,J,1/16W	1	-
R1395	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1396	ERJ3GEYJ472	M 4.7KOHM, J,1/16W	1	-
R1399,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1401	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1402	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1403	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1405	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1406	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1407	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1409	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1410	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1411	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1412	J0JCC0000100	M 0 OHM, 1/16W	1	
R1413	ERJ3EKF2490	M 249 OHM, 1/16W	1	
R1414	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1415	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	iveillai K5
R1416	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1417	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1418	ERJ3EKF43R0	M 43 OHM, 1/16W	1	
R1419	ERJ3EKF1020		1	
		M 102 OHM, 1/16W	2	
R1420,21	ERJ3GEYJ220	M 22 OHM,J,1/16W		
R1422 R1435	ERJ3EKF47R0	M 47 OHM, 1/16W	1	
	ERJ3GEYJ103	M 10KOHM, J,1/16W	1	
R1439	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D00D404 IA000
R1440-42	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R1443	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1444	J0JCC0000100	M 0 OHM, 1/16W	1	
R1446	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1447	J0JCC0000100	M 0 OHM, 1/16W	1	
R1449	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1450	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1451	J0JCC0000100	M 0 OHM, 1/16W	1	
R1452	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1453	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1454,55	J0JCC0000100	M 0 OHM, 1/16W	2	
R1457	J0JCC0000100	M 0 OHM, 1/16W	1	
R1458	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1459	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R1460	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1461	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1462	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1464	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1466	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R1467-70	ERJ3GEYJ333	M 33KOHM,J,1/16W	4	
R1471	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1472	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R1473	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R1474	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R1475	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1476	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1477,78	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1479	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1480	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1482	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1483	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1484	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1487	J0JCC0000100	M 0 OHM, 1/16W	1	
R1488,89	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1490	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1491	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1492	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1493	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1494	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1495	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1496	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1499	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1500	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1501	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1502,03	ERJ3EKF1401	M 1.4KOHM, 1/16W	2	
R1504	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1505	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1507	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1509	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1510	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1511	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1512,13	ERJ3EKF1101	M 1.1KOHM, 1/16W	2	
R1514	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R1515	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1516	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1517	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1518	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1519	ERJ3EKF33K0	,	1	
	1 1 1 1 1	M 470 OHM, J,1/16W		
R1520	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1521	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1522	ERJ3EKF33R0	M 33 OHM, 1/16W	1	Doop.
R1524	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1525,26	J0JCC0000100	M 0 OHM, 1/16W	2	
R1528	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1529	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1531	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1533	J0JCC0000100	M 0 OHM, 1/16W	1	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1535	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1537	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1538	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1540,41	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1544	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1545	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1547	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1548	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1551	ERJ3GEYJ162	M 1.6KOHM,J,1/16W	1	
R1552	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1553	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1554	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1556	J0JCC0000100	M 0 OHM, 1/16W	1	
R1557-59	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R1566	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1569	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	, , , , , , , , , , , , , , , , , , , ,
R1570	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1573-76	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R1578,79	J0JCC0000100	M 0 OHM, 1/16W	2	
	+		1	
R1580	ERJ3EKF4701	M 4.7KOHM, 1/16W	+	
R1583	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1588	J0JCC0000100	M 0 OHM, 1/16W	1	
R1591	ERJ3EKF2202	M 22KOHM, 1/16W	1	
R1592	ERJ3EKF6341	M6.34KOHM, 1/16W	1	
R1596	J0JCC0000100	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1602,03	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	iveiliai va
R1604	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1605	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1606-08	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1609-11	ERJ3EKF1500	M 150 OHM, 1/16W	3	
R1612-14	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1615	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1616	ERJ3GEYJ680	M 68 OHM, J,1/16W	1	ERJ3GEYJ680V
R1617	ERJ3GEYJ102		1	EKJ3GE1J000V
	ERJ3GEYJ330	M 1KOHM,J,1/16W		
R1618		M 33 OHM,J,1/16W	1	
R1619,20	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	ED IOOEV ICOOV
R1621	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1622	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1623,24	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1625	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1626	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1627	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R1628	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1630	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1631,32	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1633	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1634	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1635	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1639	J0JCC0000100	M 0 OHM, 1/16W	1	
R1652,53	EXB38VR000	RESISTOR ARRAY	2	
R1654-61	EXB38V820J	RESISTOR ARRAY	8	
R1665-68	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R1669,70	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1671	EXB38V103J	RESISTOR ARRAY	1	
R1672-79	EXB38V820J	RESISTOR ARRAY	8	
R1680	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1681,82	J0JCC0000100	M 0 OHM, 1/16W	2	
R1686	J0JCC0000100	M 0 OHM, 1/16W	1	
R1688-91	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R1692	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1693,94	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1695,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1697,98	ERJ3EKF1500	M 150 OHM, 1/16W	2	
R1700,01	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1702-04	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R1706	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1708	J0JCC0000100	M 0 OHM, 1/16W	1	
R1710-13	EXB38V221J	RESISTOR ARRAY	4	
R1715,16	J0JCC0000100	M 0 OHM, 1/16W	2	
R1722	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1723	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1724	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1846	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	, , , , , , , , , , , , , , , , , , ,
R1847	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1850	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1851-53	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
		500 51111,0,1/1011	5	1
R1854,55	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1857,58	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R1859-62	J0JCC0000100	M 0 OHM, 1/16W	4	
R1864	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1865-67	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	3	
R1868,69	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1870,71	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1873,74	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1875	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R1876-78	ERJ3EKF2700	M 270 OHM, 1/16W	3	
R1879,80	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1881	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1882,83	ERJ3EKF6801	M 6.8KOHM, 1/16W	2	
R1884	ERJ3EKF1201	M 1.2KOHM, 1/16W	1	
R1885	ERJ3GEYJ151		1	
		M 150 OHM,J,1/16W	1	
R1886	ERJ3GEYJ222	M 2.2KOHM,J,1/16W		
R1887,88	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R1890-93	ERJ3GEYJ330	M 33 OHM,J,1/16W	4	
R1894	ERJ3GEYJ470	M 47 OHM,J,1/16W	1 -	
R1895-99	J0JCC0000100	M 0 OHM, 1/16W	5	
R1901	J0JCC0000100	M 0 OHM, 1/16W	1	
R1903	J0JCC0000100	M 0 OHM, 1/16W	1	
R1904,05	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1906,07	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1910-33	ERJ3GEYJ820	M 82 OHM,J,1/16W	24	
R1934	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1935	J0JCC0000100	M 0 OHM, 1/16W	1	
R1936	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1939,40	J0JCC0000100	M 0 OHM, 1/16W	2	
R1941	EXB38V820J	RESISTOR ARRAY	1	
R1945	EXB38V820J	RESISTOR ARRAY	1	
R1949	EXB38V820J	RESISTOR ARRAY	1	
R1953	EXB38V820J	RESISTOR ARRAY	1	
R1957	EXB38V820J	RESISTOR ARRAY	1	
R1960	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R1961	EXB38V820J	RESISTOR ARRAY	1	
R1962	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1963-67	ERJ3GEYJ102	M 1KOHM,J,1/16W	5	
R1968,69	ERJ3EKF39R0	M 39 OHM, 1/16W	2	
R1970	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1971,72	ERJ3EKF4701	M 4.7KOHM, 1/16W	2	
R1973	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1974	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R1975	ERJ3EKF7680	M 768 OHM, 1/16W	1	
R1976	ERJ3EKF3300	M 330 OHM, 1/16W	1	
R1977,78	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1979	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1980	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1981	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1982	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1983	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1984	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1985	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	
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R1986	ERJ6ENF1621	M1.62KOHM, 1/10W	1	

Def Ne	Dort No.	Dort Nama & Description	Dee	Domarko
Ref. No.	Part No.	Part Name & Description	Pcs 1	Remarks
R1989	ERJ6ENF9100	M 910 OHM, 1/10W	-	
R1990	ERJ6GEYJ121	M 120 OHM,J,1/10W	1	
R1995	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2001,02	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R2004-07	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R2009,10	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R2012,13	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R2014,15	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2019,20	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2021	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2022	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2023	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2024	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2025	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2026	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R2027	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2029	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2030	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2030	J0JCC0000100	M 0 OHM, 1/16W	1	
	ERJ3GEYF223		1	
R2035		M 22KOHM, 1/16W		
R2036	ERJ3GEYJ823	M 82KOHM, J, 1/16W	1	
R2038	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R2039	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2040,41	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2045-48	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2052	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2056	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2057	ERJ3GEYF103	M 10KOHM, 1/16W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2322	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R2323	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2324	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2325	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2326	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2327	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2328	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2329	ERJ6GEYJ103	M 100 OHM,J,1/10W	1	
	-			
R2330	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2343	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2348	J0JCC0000100	M 0 OHM, 1/16W	1	
R2349,50	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R2351	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2353	J0JCC0000100	M 0 OHM, 1/16W	1	
R2356	ERDS2TJ101	C 100 OHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2357	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2358	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2360,61	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2362	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2364-66	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2369	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2383,84	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2387	J0JCC0000100	M 0 OHM, 1/16W	1	
	J0JCC0000100		1	
R2389		M 0 OHM, 1/16W		
R2390	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2391	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R2393,94	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2705	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2706	ERG3FJS150D	M 15 OHM, J, 3W	1	
R2901	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2902	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R2903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R2904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R2906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R2908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R2909	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2910	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2911	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2912	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2913	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2914	ERDS2TJ271	C 270 OHM, J,1/4W	1	
	ERDS2TJ152		1	
R2915		C 1.5KOHM, J,1/4W		
R2916	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R2917	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R2918	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R2919	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R2921	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2922,23	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2924,25	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2926	ERQ14AJ100	F 10 OHM, J,1/4W	1	
R2927,28	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2929	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2930	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2931,32	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2933	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2934	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2935	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2936	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2937	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2938	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2939	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2940	ERG2FJ151H	M 150 OHM, J, 2W	1	1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2951	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2952	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2953,54	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2955,56	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2957	ERQ14AJ100	F 10 OHM, J,1/4W	1	
R2958,59	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2960	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2961	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2962,63	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2964	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2965	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2966	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2967	ERDS2FJ100	C 10 OHM, J,1/4W	1	
R2968	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2970	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R2971	ERG2FJ151H	M 150 OHM, J, 2W	1	
R2975	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2976	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R2977	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R2978,79	ERDS1FJ152	C 1.5KOHM, J,1/2W	2	
R2980,81	ERDS2TJ271	C 270 OHM, J,1/4W	2	
R2982	ERQ14AJ100	F 10 OHM, J,1/4W	1	
R2983,84	ERQ14AJ120P	F 12 OHM, J,1/4W	2	
R2985	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R2986	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2987,88	ERDS2TJ683	C 68KOHM, J,1/4W	2	
R2989	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R2990	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R2991	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2993	ERDS2TJ100	C 10 OHM, J,1/4W	1	
R2994	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R2994 R2995	ERDS1FJ470	C 47 OHM, J,1/2W	1	
	ERG2FJ151H	· · ·	1	
R2996		M 150 OHM, J, 2W		
R3000 R3001	ERD25V0T	M OHM, 1/10W	1	
	ERJ3GEYJ153	M 15KOHM, J, 1/16W	1	
R3002	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3003	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3004	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3005-07	ERJ6GEYJ821	M 820 OHM, J,1/10W	3	
R3008-10	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3011-13	ERJ6GEYJ821	M 820 OHM,J,1/10W	3	
R3014-16	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3017,18	J0JCC0000100	M 0 OHM, 1/16W	2	
R3038,39	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R3042,43	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3044	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3048,49	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3050	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3054,55	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3056	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3057-59	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3062	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3063-65	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3066	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3068,69	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3071	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R3074-79	ERJ3GEYJ223	M 22KOHM,J,1/16W	6	
R3080	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3083,84	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3087-89	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3091-93	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3095-97	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3098	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3099,00	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3113-15	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	3	
R3133,34	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3135	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3136,37	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3138	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3160-67	ERJ6GEY0R00	M 0 OHM, 1/10W	8	
	ERJ6GEY0R00	-	2	
R3170,71	ERDS2TJ103	M 0 OHM, 1/10W	1	
R3211		C 10KOHM, J,1/4W C 3.9KOHM, J,1/4W	1	
R3355 R3356	ERDS2TJ392 ERDS2TJ822	· · ·	1	
		C 8.2KOHM, J,1/4W		
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3421	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3422	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R7005-07	ERDS2TJ103	C 10KOHM, J,1/4W	3	
R7010	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7011	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7012	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7013	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7014	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7015	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7016	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7017	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7018	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7019	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7020	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7021	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7024-29	ERDS2TJ222	C 2.2KOHM, J,1/4W	6	
R7030	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJS820D	M 82 OHM, J, 2W	3	
R7034	ERG2FJS121D	M 120 OHM, J, 2W	1	
R7035	ERG2FJS820D	M 82 OHM, J, 2W	1	
R7036	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7040	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7048	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7052	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	

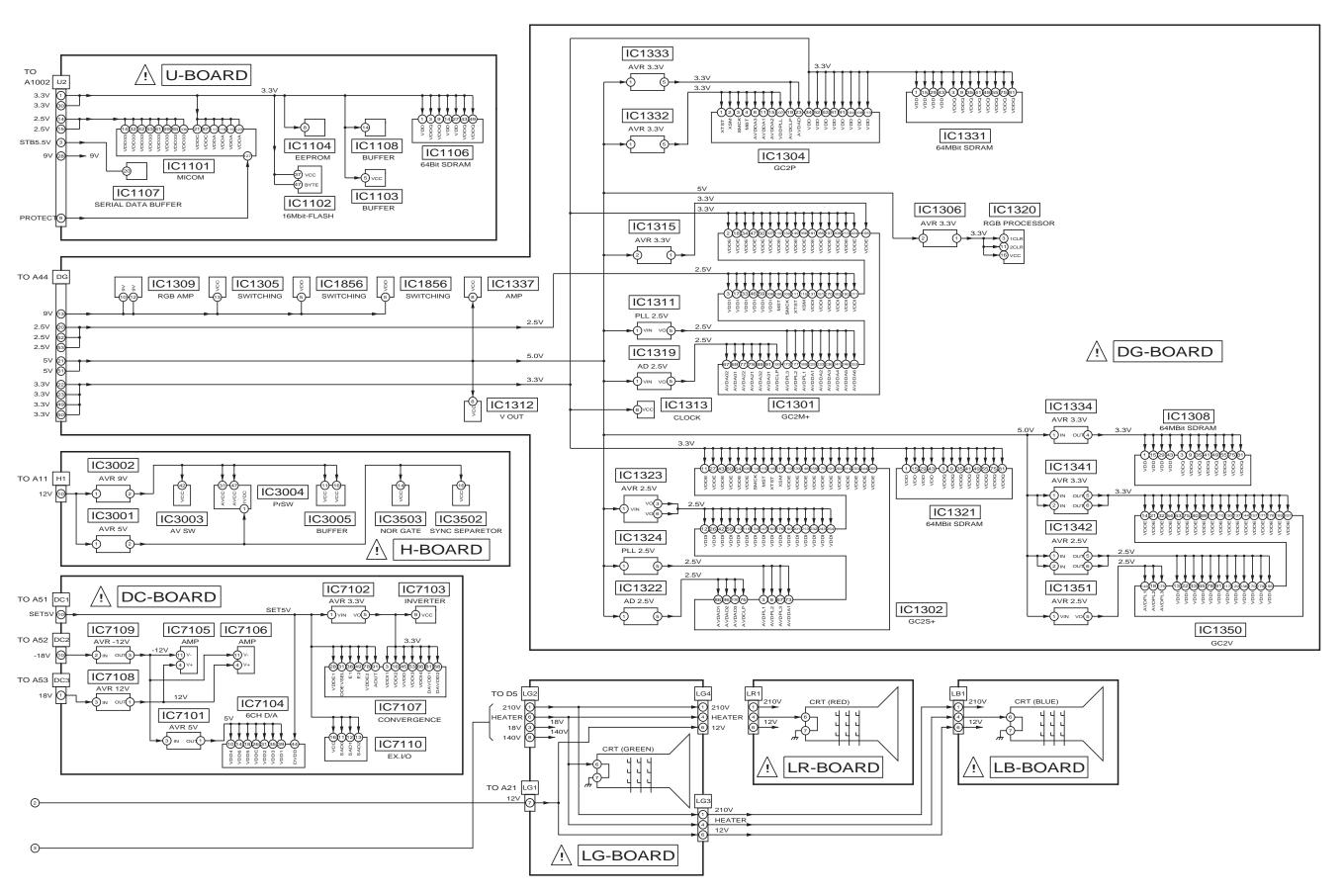
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7060	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7064	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERDS2TJ332	C 3.3KOHM, J,1/4W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	
R7109	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7112,13	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122,23	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129,30	EXB38V820J	RESISTOR ARRAY	2	
•			1	
R7131 R7134	ERJ6GEYJ151 ERJ6GEYJ151	M 150 OHM,J,1/10W M 150 OHM,J,1/10W	1	
R7135-37	ERJ6GEYJ822	M 8.2KOHM,J,1/10W M 0 OHM, 1/10W	1	
R7140	ERJ6GEY0R00	,	1	
R7141	ERJ6ENF2201	M 2.2KOHM, 1/10W		
R7142	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7143	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7144	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7145	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7146	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7147	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7148	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7149	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7150	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7151	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7152	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7160-62	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165,66	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7167	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7168,69	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7175	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7185	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7186	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7187	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7188	ERJ6ENF82R0	M 82 OHM, 1/10W	1	
R7189	ERJ6ENF2700	M 270 OHM, 1/10W	1	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R7192	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7193	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	

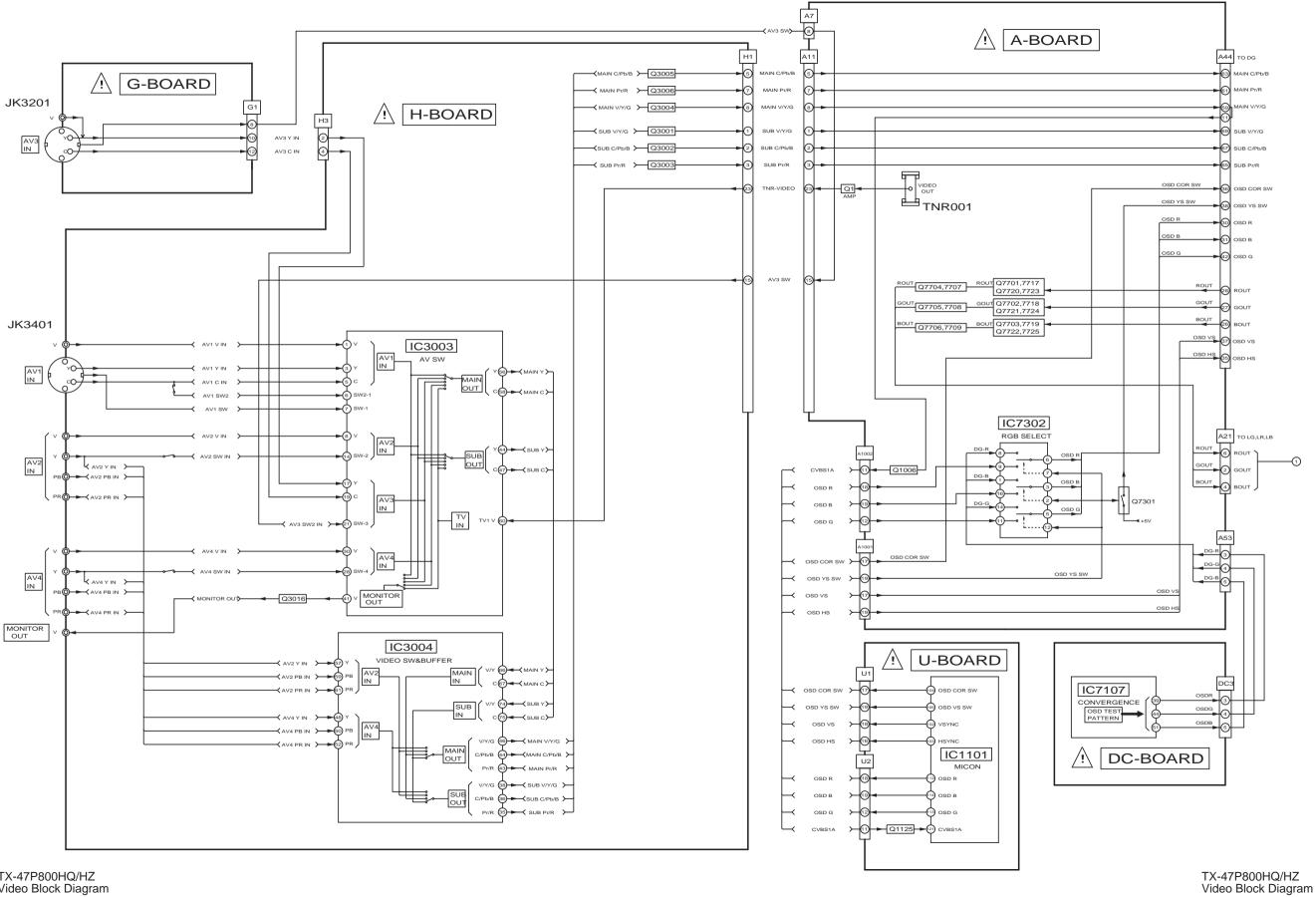
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7301-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7304	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7305,06	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R7307	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7308-11	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R7312-14	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7734,35	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7736	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7737			1	
	ERJ6GEY0R00	M 0 OHM, 1/10W		
R7738,39	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7742,43	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF82R0	M 82 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7795-97	ER0S2CKF2000	M 200 OHM, F,1/4W	3	
R7801	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
	_1100L141 0000	555 51111, 1/1044	<u>'</u>	

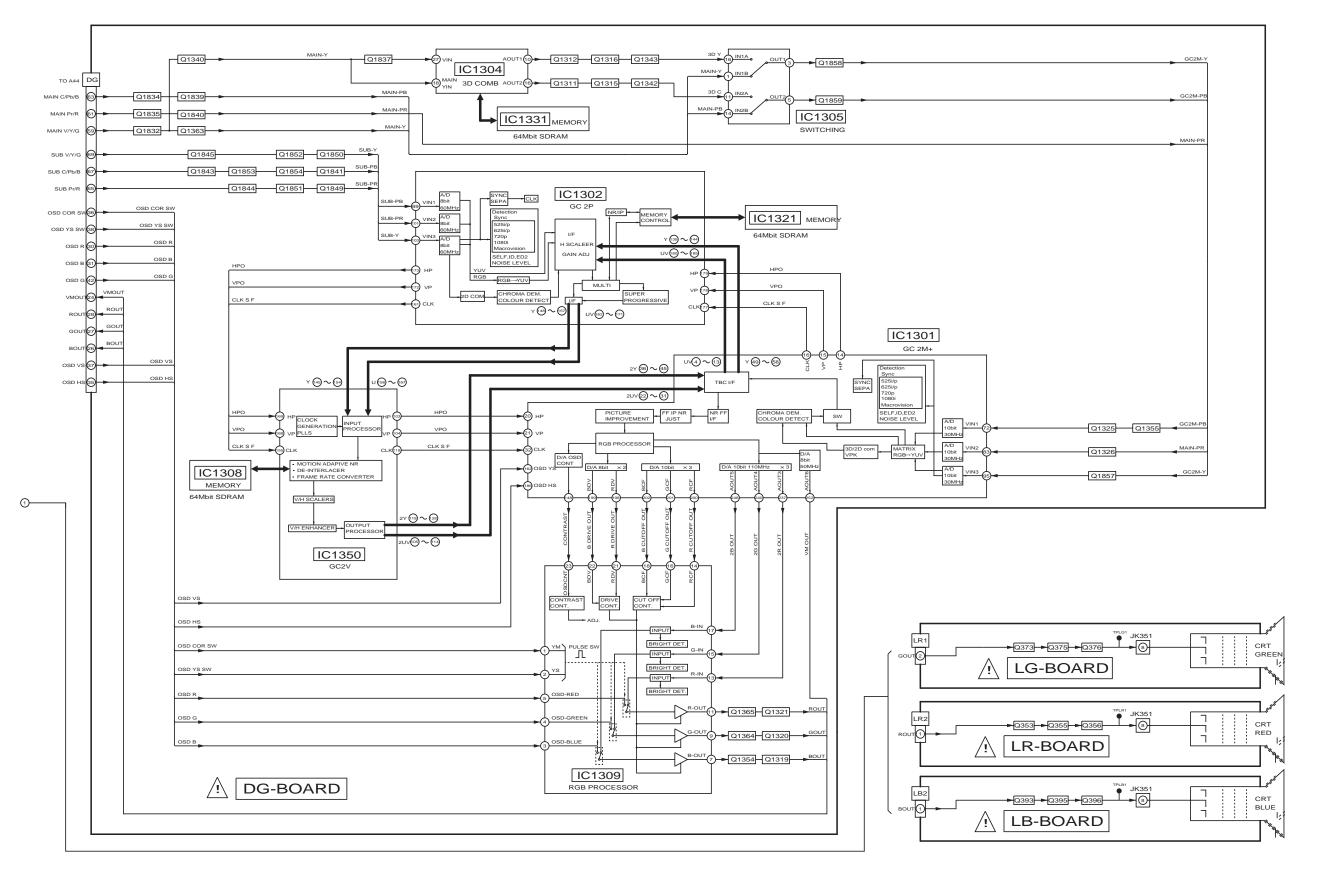
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R7805	ERJ6ENF1800	M 180 OHM, 1/10W	1		
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1		
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1		
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1		
R7809	ERJ6ENF1800	M 180 OHM, 1/10W	1		
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1		
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1		
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1		
R9305	ERJ6GEY0R00	M 0 OHM, 1/10W	1		
R9318	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1		
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1		
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1		
R9602	ERDS2TJ102	C 1KOHM, J,1/4W	1		
R9603	ERDS2TJ222	C 2.2KOHM, J,1/4W	1		
R9604-06	ERDS2TJ102	C 1KOHM, J,1/4W	3		
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1		
R9608	ERDS2TJ332	C 3.3KOHM, J,1/4W	1		
R9609	ERDS2TJ102	C 1KOHM, J,1/4W	1		
R9610	ER0S2CKF1501	M 1.5KOHM, F,1/4W	1	EROS2CKF1501	
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5		
R9616	ERDS2TJ101	C 100 OHM, J,1/4W	1		
R9617	ER0S2CKF2801	M2.80KOHM, F,1/4W	1	EROS2CKF2801	
R9618	ER0S2CKF2741	M2.74KOHM, F,1/4W	1		
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1		
R9620	ERDS2TJ221	C 220 OHM, J,1/4W	1		
R9621	ERDS2TJ102	C 1KOHM, J,1/4W	1		
R9622	ERC12GK103	S 10KOHM, K,1/2W	1		
R9623	ERDS2TJ104	C 100KOHM, J,1/4W	1		
R9624	ER0S2CKF1500	M 150 OHM, F,1/4W	1		
R9625	ERDS2TJ101	C 100 OHM, J,1/4W	1		
R9626	ERDS2TJ221	C 220 OHM, J,1/4W	1		
R9627	ER0S2CKF2742	M27.4KOHM, F,1/4W	1		
DI 904	Kepi ADA00010	DELAY	1	A.	
RL801	K6B1ADA00010	RELAY	1	<u>A</u>	
RL802	TSEH8011	RELAY	1	K6B1AGA00043 △	
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015	
D114004	004110000	DEMOCON DEGIEVED		DOD 4 D0000040	
RM1001	GP1U282Q	REMOCON RECIEVER	1	B3RAD000012	
DTI	TZTNIDO40 IDV	CIRCUIT BOARD A	1	A.	
RTL	TZTNP010JDV			Δ.	
RTL	TZTNP020JDV	CIRCUIT BOARD D	1	TX-47P800HQ 🗥	
RTL	TZTNP010JEV	CIRCUIT BOARD D	1	TX-47P800HZ 🕭	
RTL	TNPA2938AC	CIRCUIT BOARD H	1	A	
RTL	TXN/P10JDV	CIRCUIT BOARD P	1	TX-47P800HQ 🛆	
RTL	TXN/P10JEV	CIRCUIT BOARD P	1	TX-47P800HZ A	
RTL	TZTNP030JDV	CIRCUIT BOARD U	1	<u> </u>	
				<b>+</b> .	
RTL	TXNDC10JDV	CIRCUIT BOARD DC	1	A	
RTL	TXNDG10JDV	CIRCUIT BOARD DG	1	<u> </u>	
RTL	TNPA2332AJ	CIRCUIT BOARD LR	1	<u>A</u>	
RTL	TNPA2333AJ	CIRCUIT BOARD LG	1	Δ	
RTL	TNPA2334AJ	CIRCUIT BOARD LB	1	Δ	
	1		1		

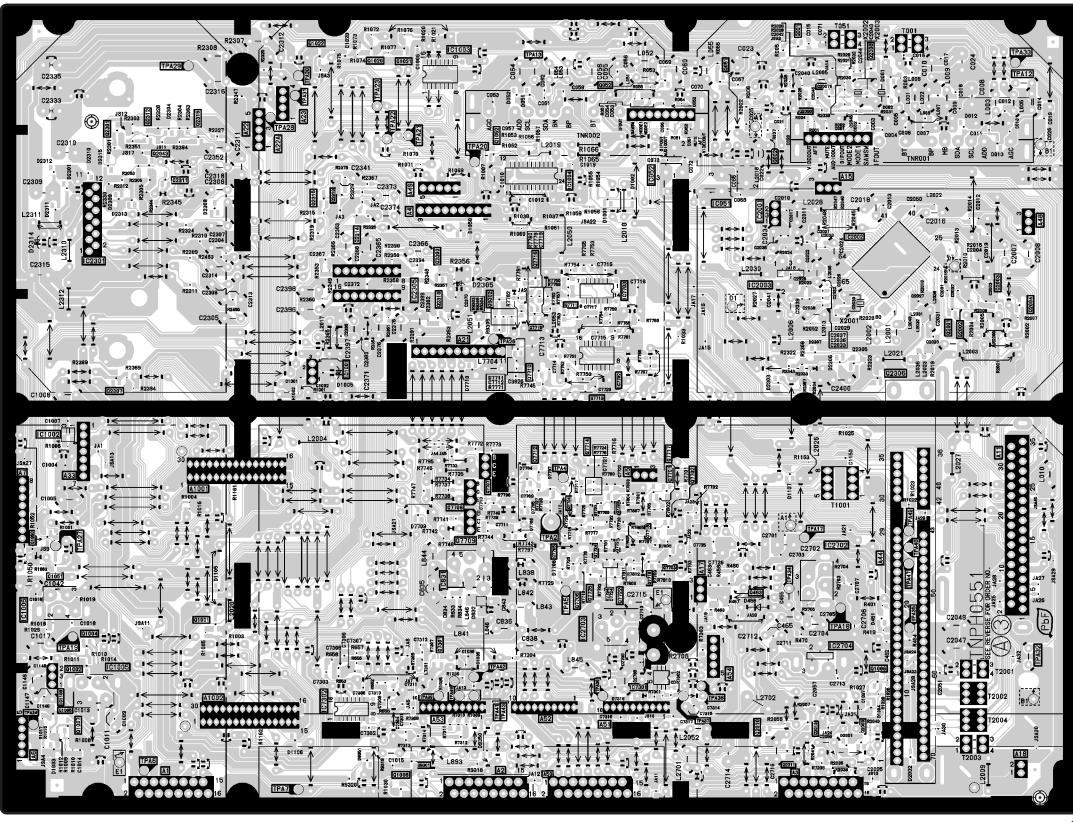
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TNPA2946AB	CIRCUIT BOARD SR	1	A
RTL	TNPA2947AB	CIRCUIT BOARD SG	1	Δ
RTL	TNPA2948AB	CIRCUIT BOARD SB	1	Δ
RTL				<u> </u>
	TNPA2936	CIRCUIT BOARD G	1	<u>A</u>
RTL	TNPA2941	CIRCUIT BOARD KA	1	<u>A</u>
RTL	TNPA2940	CIRCUIT BOARD K	1	Δ
S840	ESB92S11B	SWITCH	1	Δ
S1003-07	03-07 EVQ23405R SWITCH		5	
	VALVAGO AGO AGO AGO AGO AGO AGO AGO AGO AGO			
SB1	K1KA06A00180	6P CONNECTOR	1	
SG1	K1KA04A00195	4A00195 4P CONNECTOR		
SG2	K1KA04A00195	3P CONNECTOR	1	
SG3,G4			2	
,			<u> </u>	
SR1	K1KA06A00180	6P CONNECTOR	1	
T001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T501	ETH19Y187AY	H DRIVE TRANS	1	
T551	KFT7AA457F	FLYBACK TRANS	1	<u>A</u>
T801	G4D4A0000068	SWITCHING TRANS	1	Δ
T881	ETS24KC156AG	SWITCHING TRANS	1	Δ
T1001	TSKX027	CHOKE COIL	1	G0BYYYG00005
T2001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2002	TSKX026	CHOKE COIL	1	G0BYYYY00016
T2003	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2004	TSKX026	CHOKE COIL	1	G0BYYYY00016
T3001	TSKX026	CHOKE COIL	1	G0BYYYY00016
TNR001	J3AAABZ00004	TUNER	1	Δ
TD 4.40	EDDOSVODOS	0.001114 4/4114		
TPA12	ERD25V0R00	C 0 OHM, 1/4W	1	
TPA32	ERD25V0R00	C 0 OHM, 1/4W	1	
U1,U2	K1KB30A00092	30P CONNECTOR	2	
01,02	TTTD00A00032	OUT COMMEDICAL		
X1101	H0J600400006	CRYSTAL	1	
X1301	H0J202500002	CRYSTAL	1	
X2001	TSSA128	CRYSTAL	1	H0D184500008

# 19. Schematic Diagram for printing with A420. Cover for printing with A4



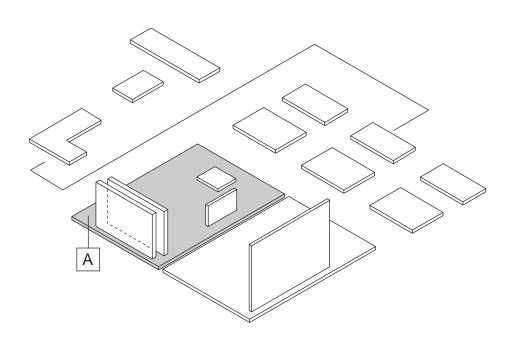






TX-47P800HQ/HZ
A-Board TZTNP010JDV

A B C D D E F G H I I

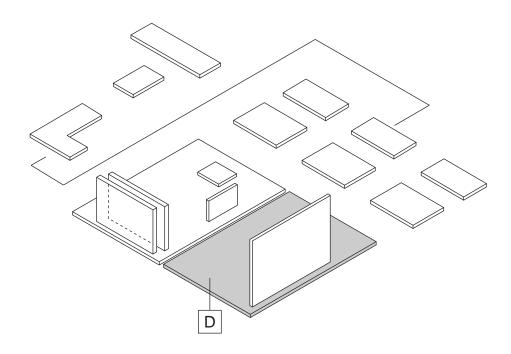


## **Parts Location**

A-BOARD							
IC		TRANSISTO	R	Q2311	B-5	TP	
IC  IC051 IC052 IC831 IC1001 IC1002 IC1003 IC1004 IC1005 IC1006 IC1109 IC2001 IC2002 IC2003 IC2301 IC2305 IC2702 IC2703 IC2704 IC7301 IC7301 IC7302 IC7702 IC7702 IC7703	F-5 F-5 D-2 C-4 B-3 D-6 E-5 B-2 B-2 F-5 G-4 F-4 B-5 D-4 G-2 E-2 G-2 F-2 E-2	TRANSISTO  Q001 Q002 Q051 Q052 Q463 Q1001 Q1002 Q1004 Q1005 Q1006 Q1007 Q1008 Q1020 Q1021 Q1022 Q1050 Q1051 Q1052 Q2001 Q2002 Q2003 Q2004 Q2006 Q2007 Q2008 Q2009		Q2311 Q2312 Q2313 Q2314 Q2315 Q2316 Q7301 Q7701 Q7702 Q7703 Q7704 Q7705 Q7706 Q7707 Q7708 Q7709 Q7710 Q7711 Q7712 Q7711 Q7712 Q7713 Q7714 Q7715 Q7716 Q7717 Q7718 Q7718 Q7719 Q7719 Q7719	B-5 C-5 D-5 C-5 C-5 D-2 F-3 F-3 F-3 E-2 E-3 E-2 D-3 E-4 E-4 E-3 E-4 E-4 E-3 E-4 E-4 F-3 F-3 F-2 E-3 F-3 F-2 E-4 F-3 F-3 F-3 F-2 E-3	TPA2 TPA4 TPA5 TPA6 TPA7 TPA12 TPA13 TPA17 TPA18 TPA19 TPA20 TPA21 TPA22 TPA23 TPA24 TPA26 TPA27 TPA28 TPA28 TPA29 TPA30 TPA31 TPA32 TPA31 TPA32 TPA33 TPA34 TPA35	E-3 E-2 B-1 C-1 H-6 E-6 G-3 G-2 B-2 D-5 D-5 D-5 D-5 D-5 D-5 D-5 D-5 H-1 E-4 B-3 C-5 B-6 C-6 C-5 H-2 H-6 F-2 E-2
IC7702	E-4	Q2003 Q2004 Q2006 Q2007 Q2008 Q2009	H-4 H-4 G-5 G-6 G-6	Q7716 Q7717 Q7718 Q7719	E-4 F-3 F-3 F-2	TPA31 TPA32 TPA33 TPA34 TPA35 TPA36	C-5 H-2 H-6 F-2 G-2 E-2
		Q2010 Q2011 Q2013 Q2043 Q2301 Q2303 Q2305 Q2306 Q2307 Q2310	F-1 G-1 B-5 B-5 D-4 G-4 G-4 B-4	Q7722 Q7723 Q7724 Q7725 Q9301 Q9302	E-2 E-3 E-2 E-2 D-1 E-4	TPA37 TPA38 TPA39 TPA40 TPA41 TPA42 TPA43 TPA47 TPA48 TPA48	F-2 F-2 D-2 D-2 D-2 D-2 D-2 G-3 G-3

**D-Board(COMPONENT SIDE)** TZTNP020JDV(TX-47P800HQ) TZTNP010JEV(TX-47P800HZ) JSD31 0-----TNPH0552 2 D TX-47P800HQ TX-47P800HZ TX-47P800HQ TX-47P800HZ D-Board TZTNP020JDV D-Board TZTNP010JEV D-Board TZTNP020JDV D-Board TZTNP010JEV

D-Board(FOIL SIDE) TZTNP020JDV(TX-47P800HQ) TZTNP010JEV(TX-47P800HZ) TNPH0552
SEE REVERSE FOR ORDERNO 2 D PbF TX-47P800HZ TX-47P800HZ TX-47P800HQ TX-47P800HQ D-Board TZTNP010JEV D-Board TZTNP020JDV D-Board TZTNP010JEV D-Board TZTNP020JDV

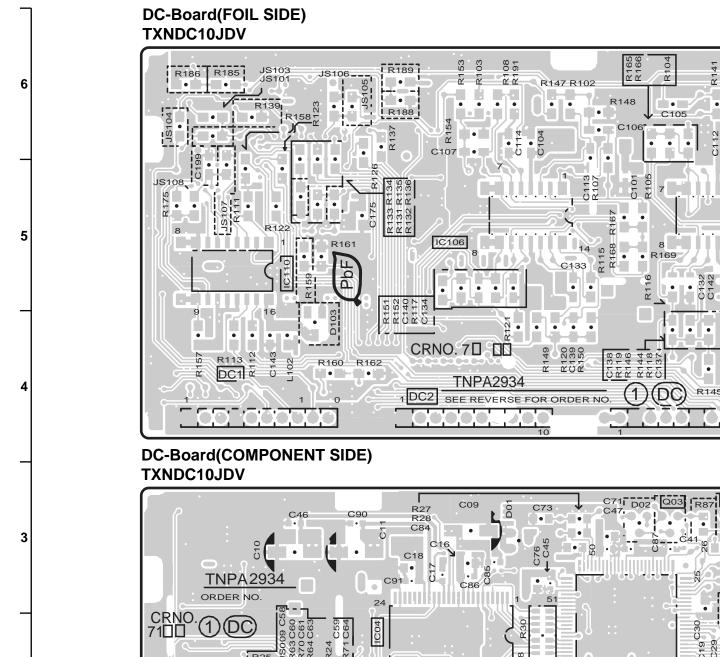


# **Parts Location**

D-BOARD (FOIL SIDE)						
IC		Q7002	C-5	TP46	H-4	
IC451 IC751 IC7001 IC7002 IC9601	G-5 B-4 C-5 F-5 G-4	Q7003 Q9601 Q9602 Q9603	C-5 B-2 C-2 C-2	TP47 TP50 TP51 TP52 TP54 TP55	H-4 F-4 F-4 F-4 E-4	
TRANSISTO	₹	TP17	D-5	TP56	E-4	
Q451 Q501 Q551 Q552 Q553 Q554 Q555 Q556 Q557 Q558 Q559 Q701 Q854 Q7001	H-6 F-2 F-2 H-1 G-4 G-4 D-3 D-3 D-3 C-3 B-3 G-1 E-5	TP18 TP19 TP20 TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP28 TP43 TP44 TP44 TP45	D-5 D-5 D-5 E-5 E-5 E-6 B-5 B-5 B-5 B-5 G-4 G-4	TP58 TP59 TP60 TP85 TP86 TP87 TP88 TPD14 TPD20 TPD21 TPD80 TPD81	E-4 E-4 E-4 G-4 G-4 H-6 C-2 B-2 H-4	

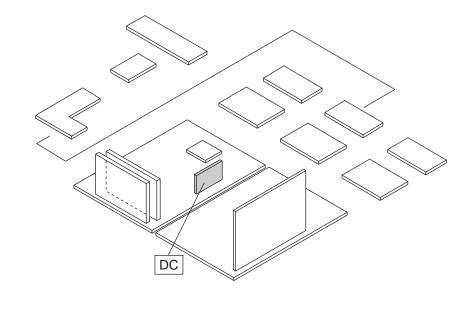
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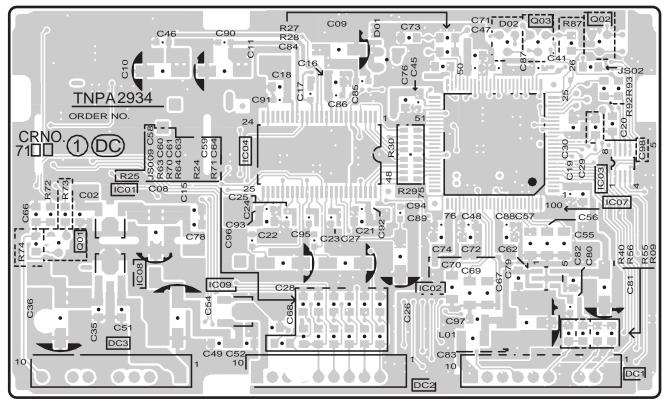
D-BOARD (COMPONENT SIDE)						
IC	IC		TRANSISTOR		TP	
IC451 IC751 IC7001 IC7002 IC9601	B-5 G-4 F-5 C-5 B-4	Q451 Q501 Q551 Q552 Q553 Q554 Q555 Q556 Q557 Q558 Q559 Q701 Q854 Q7001 Q7002 Q7002 Q7003 Q9601 Q9602 Q9603	B-6 D-2 C-2 B-1 B-4 C-4 E-3 E-3 F-3 F-3 F-3 G-3 B-1 D-5 G-5 F-4 G-2 G-2 G-2	TPD14 TPD20 TPD21 TPD80 TPD81	B-6 F-2 G-2 B-4 B-4	



TX-47P800HQ/HZ

D-Board TXNDC10JDV





#### **Parts Location**

	DC-BO	ARD (FOIL S	IDE)	
IC				
IC7105	E-5			
IC7106	D-5			
IC7110	B-5			

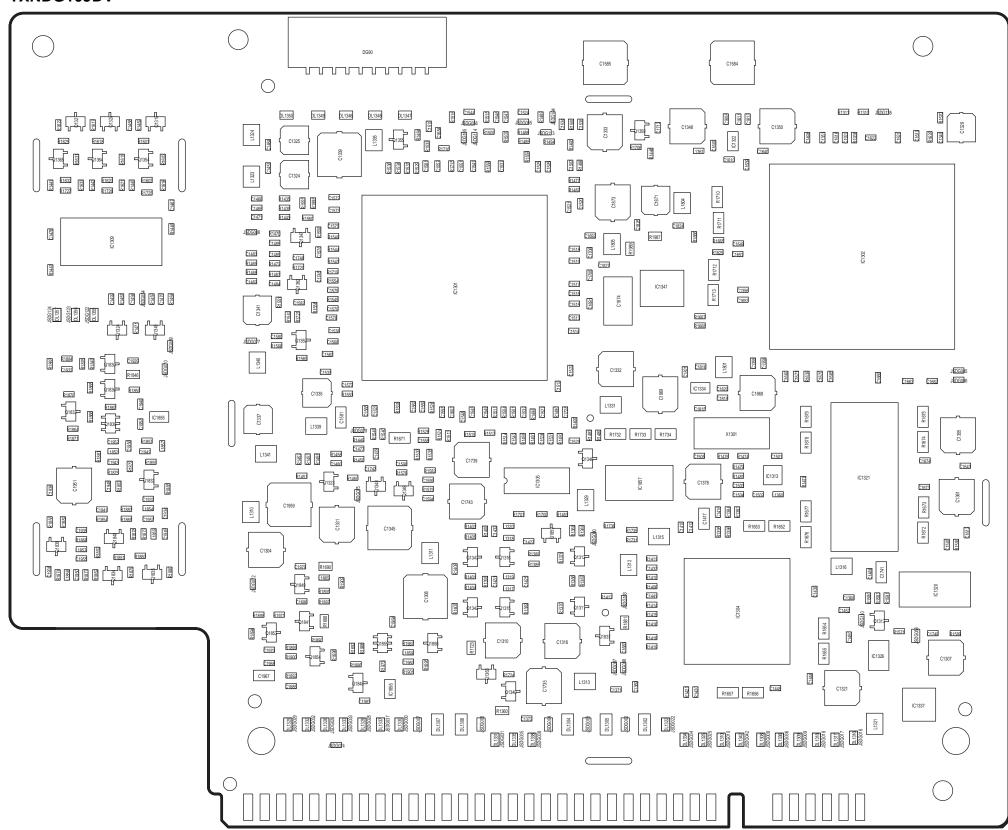
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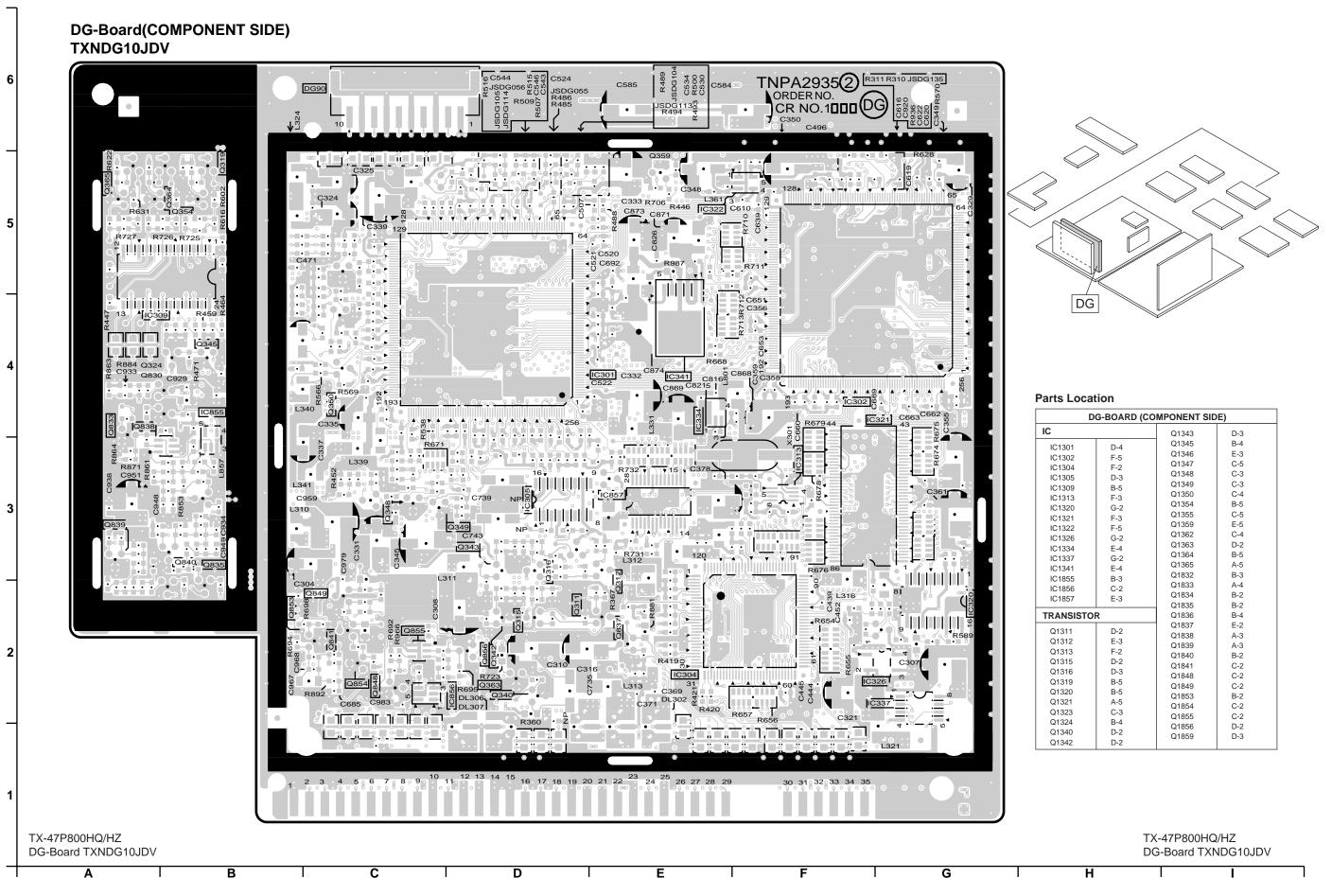
DC-BOARD (COMPONENT SIDE)				
IC TRANSISTOR				
IC7101	B-2	Q7101	B-2	
IC7102	D-2	Q7102	E-3	
IC7103	E-2	Q7103	E-3	
IC7104	C-2			
IC7107	D-2			
IC7108	B-2			
IC7109	C-1			

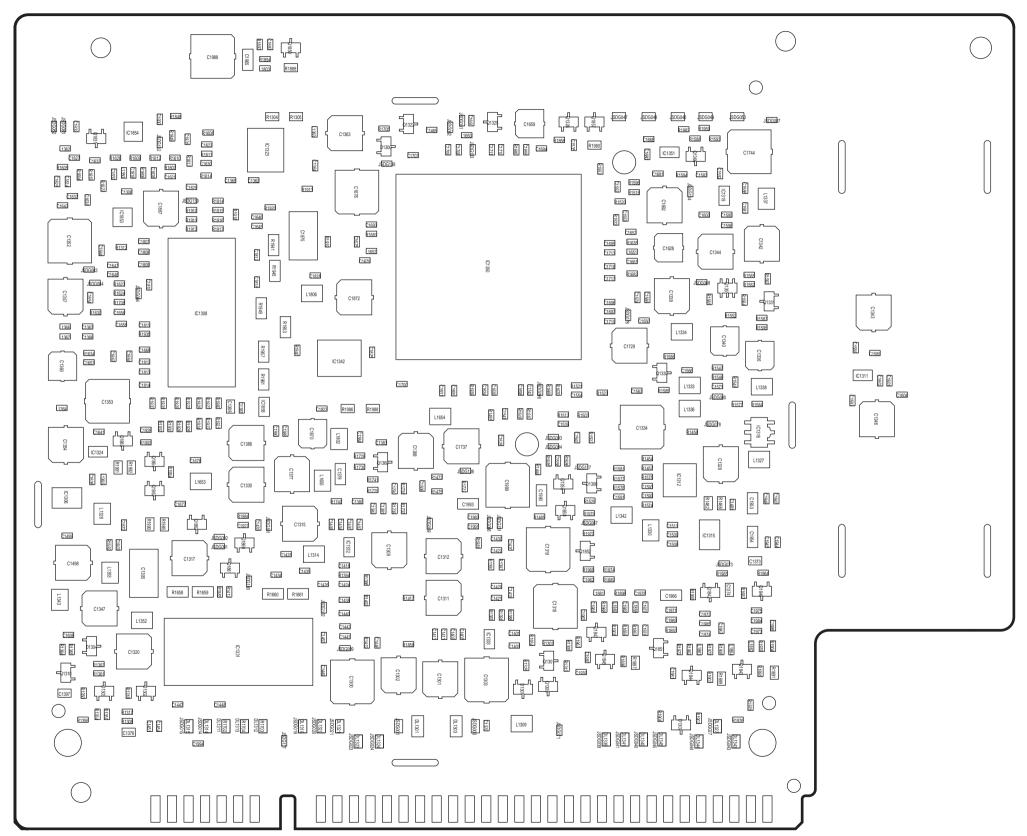
TX-47P800HQ/HZ D-Board TXNDC10JDV

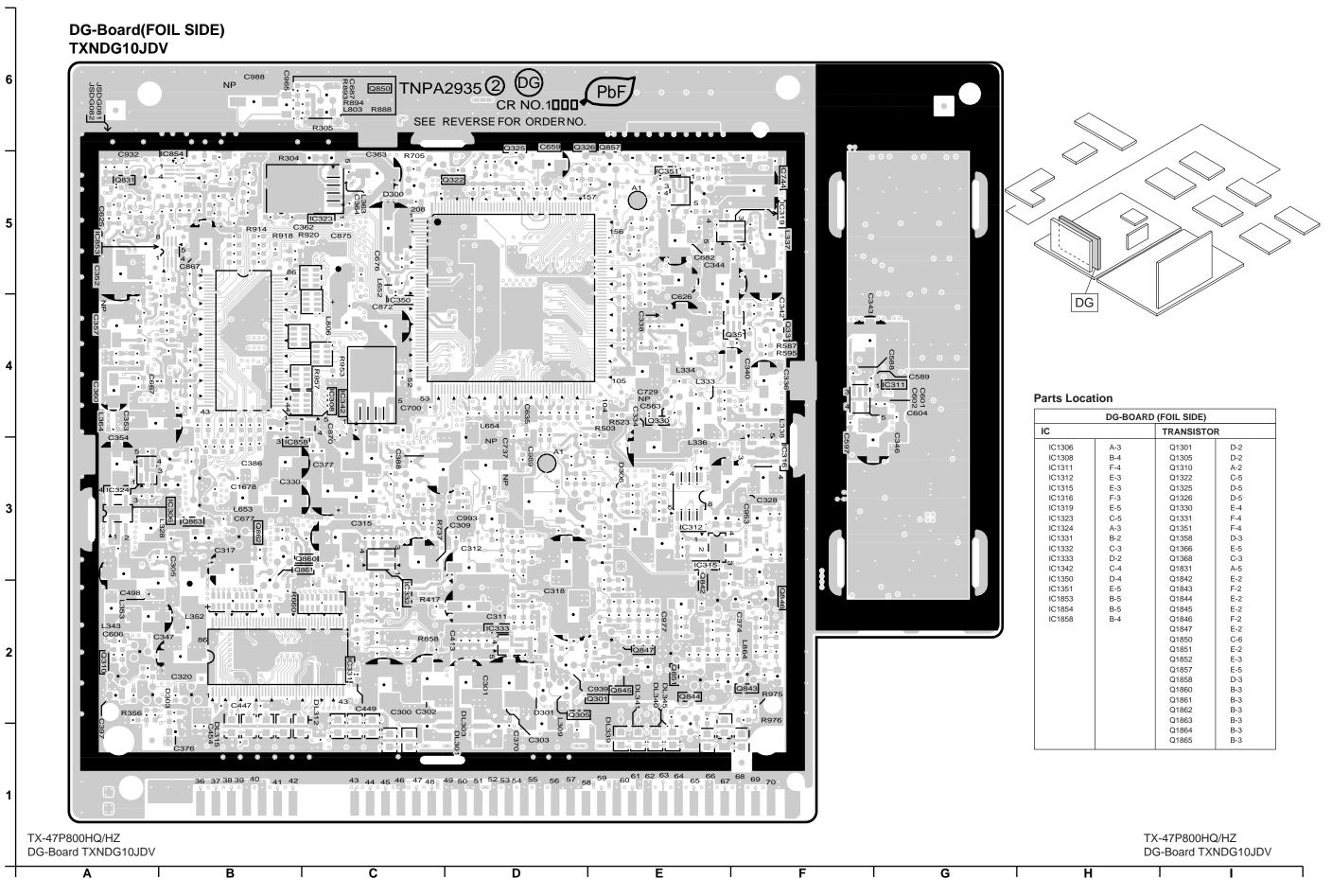
C D E F G H H

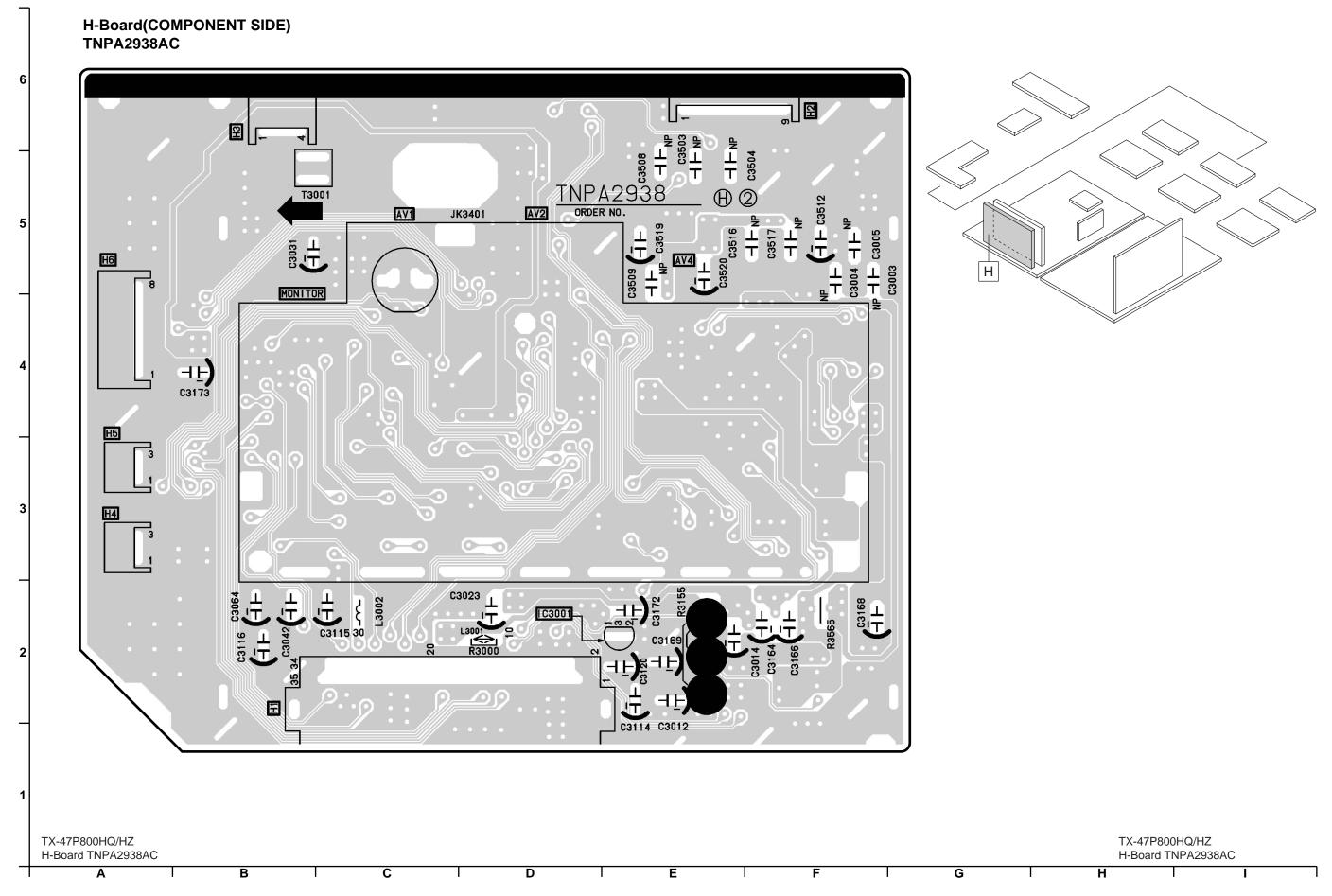
# DG-Board(COMPONENT SIDE) TXNDG10JDV



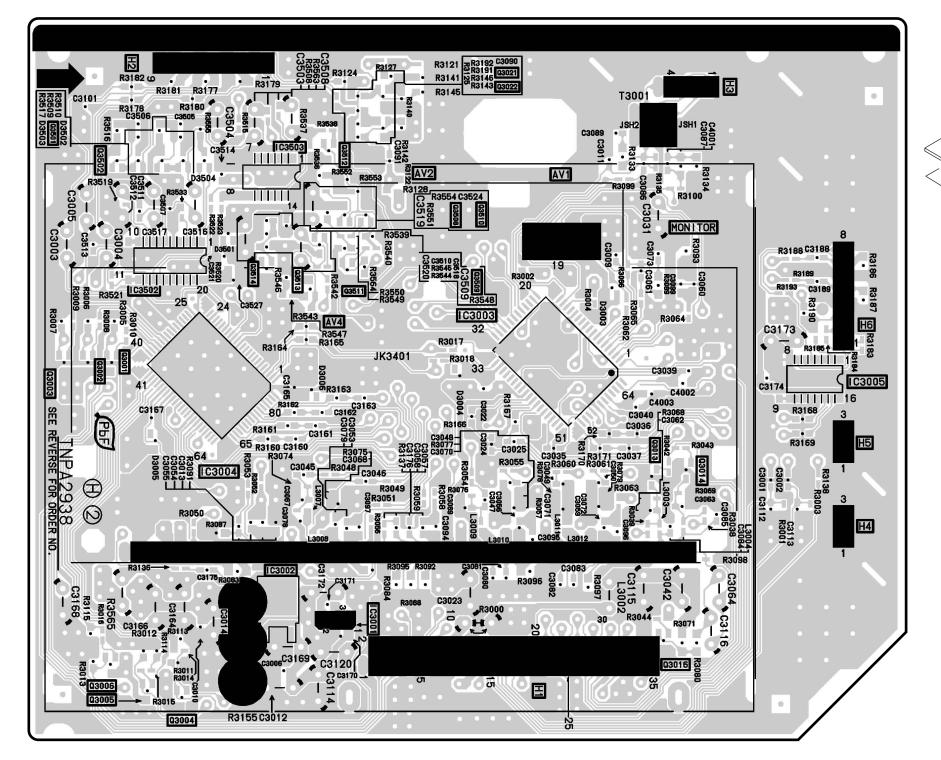


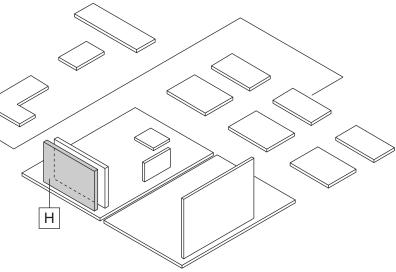










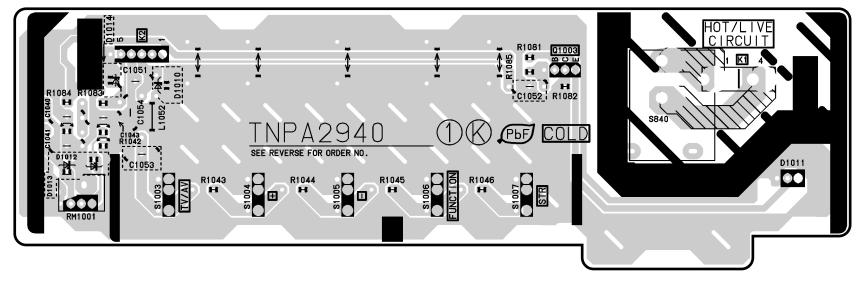


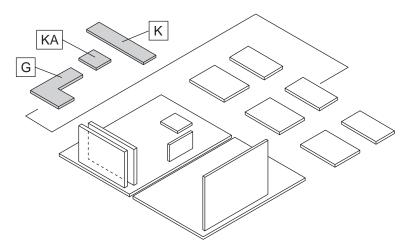
#### **Parts Location**

H-BOARD (FOIL SIDE)					
IC		TRANSISTOR	R		
IC3001 IC3002 IC3003 IC3004 IC3005 IC3502	C-2 B-2 D-4 B-4 F-4 B-4	Q3001 Q3002 Q3003 Q3004 Q3005 Q3006	A-4 A-4 A-4 B-2 B-2 A-2		
IC3503	B-5	Q3013 Q3014 Q3016 Q3021 Q3022 Q3501 Q3502 Q3508 Q3509 Q3510 Q3511 Q3512 Q3513 Q3514	E-3 E-2 C-6 C-5 B-5 C-5 C-5 C-4 C-4 B-4		

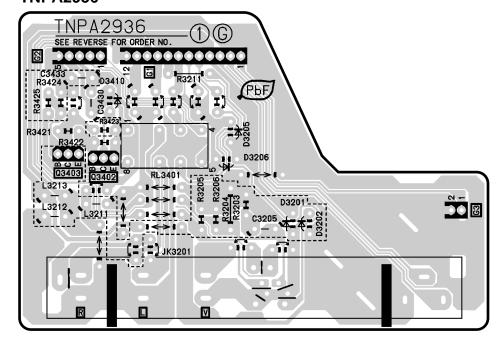
TX-47P800HQ/HZ H-Board TNPA2938AC TX-47P800HQ/HZ H-Board TNPA2938AC

# K-Board TNPA2940

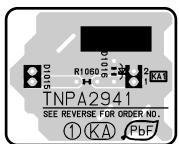




# G-Board TNPA2936



# KA-Board TNPA2940



# **Parts Location**

K-BOARD					
TRANSISTOR					
Q1003	E-5				

#### Parts Location

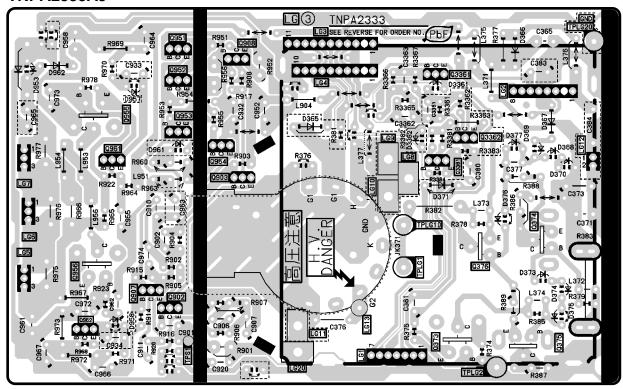
G-BOARD					
TRANSISTOR					
Q3402	B-2				
Q3403	B-2				

TX-47P800HQ/HZ K-Board TNPA2940 G-Board TNPA2936 KA-Board TNPA2941 TX-47P800HQ/HZ

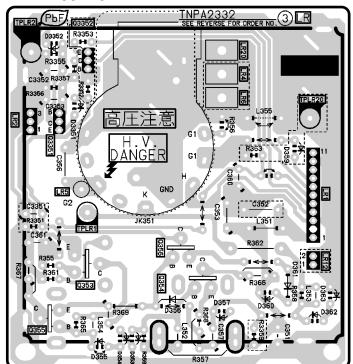
K-Board TNPA2940 G-Board TNPA2936 KA-Board TNPA2941

C D E F G H

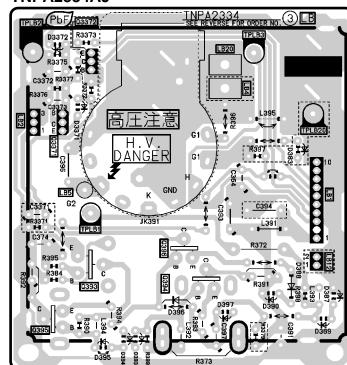
# LG-Board TNPA2333AJ

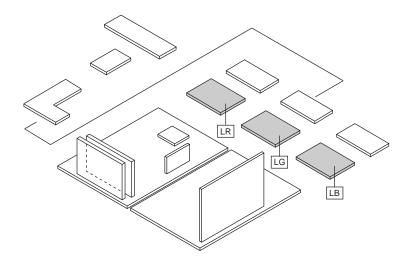


# LR-Board TNPA2332AJ



# LB-Board TNPA2334AJ





## **Parts Location**

LG-BOARD				
TRANSISTO	₹	TP		
Q373	D-4	TPLG1	D-4	
Q374	E-5	TPLG2	D-4	
Q375	E-4	TPLG10	D-5	
Q376	D-5	TPLG20	E-6	
Q902	B-4	TPS1	B-4	
Q903	C-5			
Q907	B-4			
Q908	C-6			
Q951	B-6			
Q952	B-6			
Q953	B-5			
Q954	C-5			
Q955	B-5			
Q956	B-4			
Q961	B-5			
Q962	B-4			
Q3361	D-6			
Q3362	D-5			
Q3381	D-5			

#### **Parts Location**

LR-BOARD					
TRANSISTOR TP					
Q353 Q354 Q355 Q356 Q3351 Q3352	B-1 C-1 B-1 B-2 B-2 B-3	TPLR1 TPLR2 TPLR20	B-2 A-3 C-2		

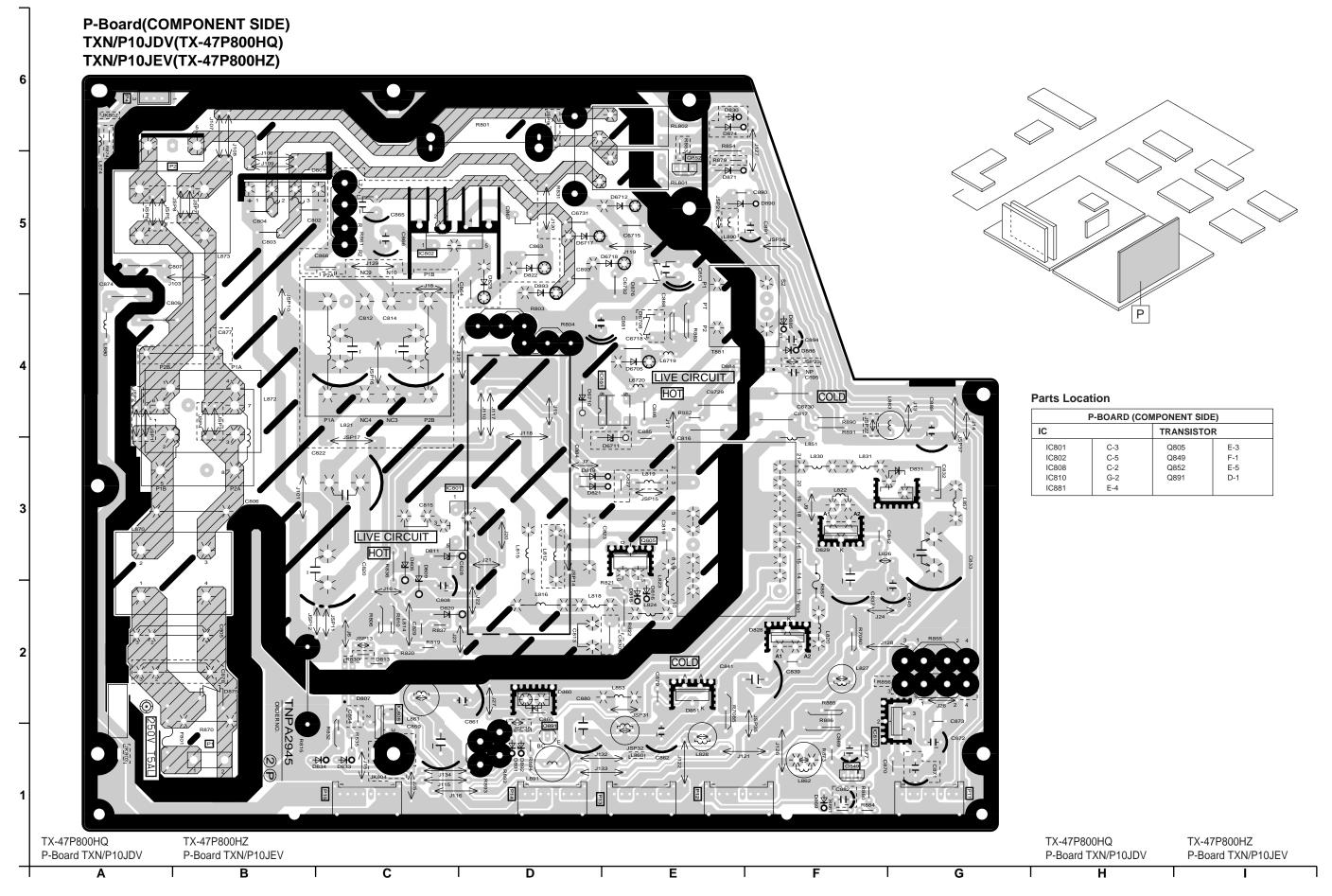
#### **Parts Location**

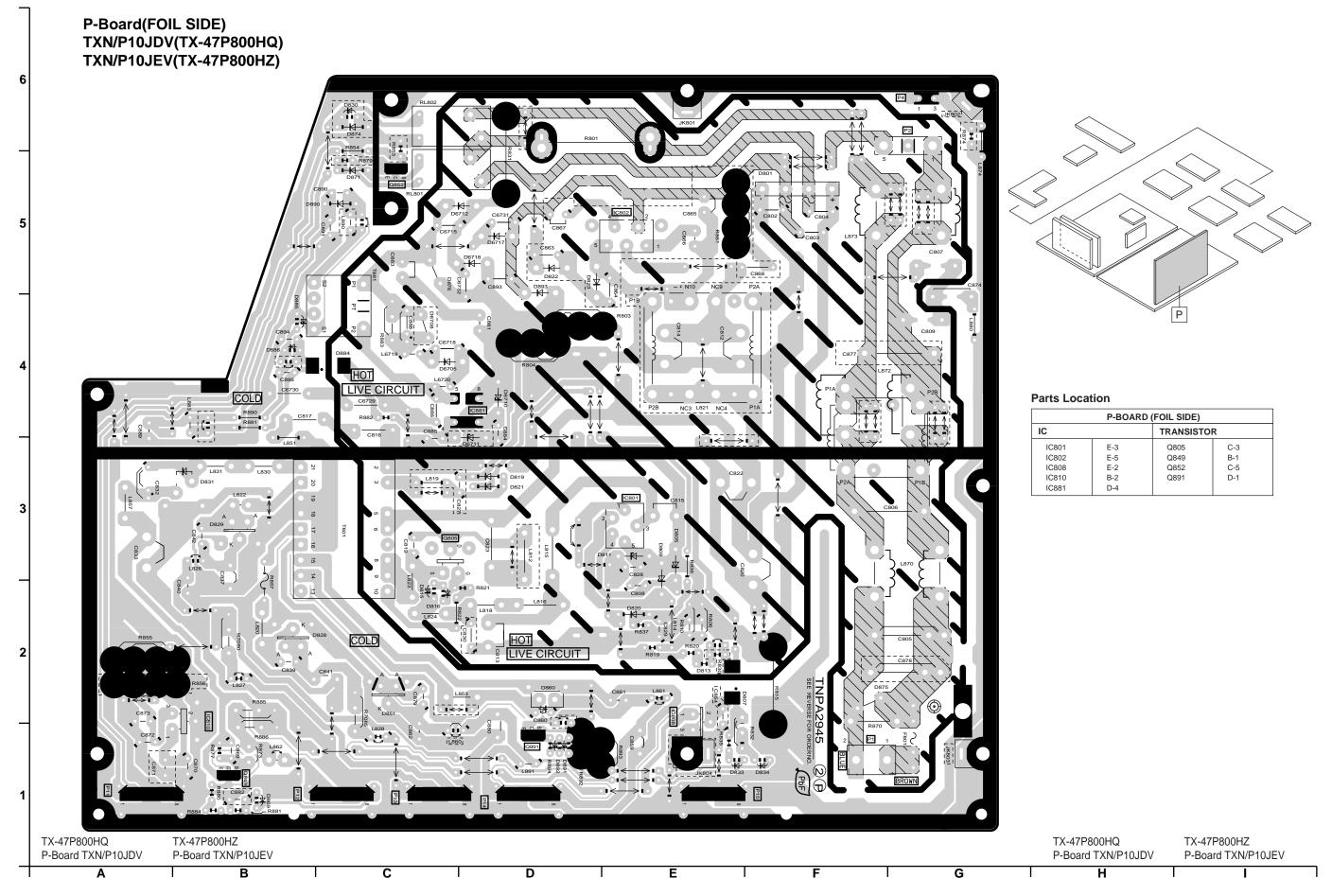
LB-BOARD					
TRANSISTOR TP					
Q393	D-1	TPLB1	D-2		
Q394	E-1	TPLB2	D-3		
Q395	D-1	TPLB3	E-3		
Q396	E-2	TPLB20	F-2		
Q3371	D-2				
Q3372	D-3				

TX-47P800HQ/HZ LG-Board TNPA2333AJ LR-Board TNPA2332AJ LB-Board TNPA2334AJ TX-47P800HQ/HZ

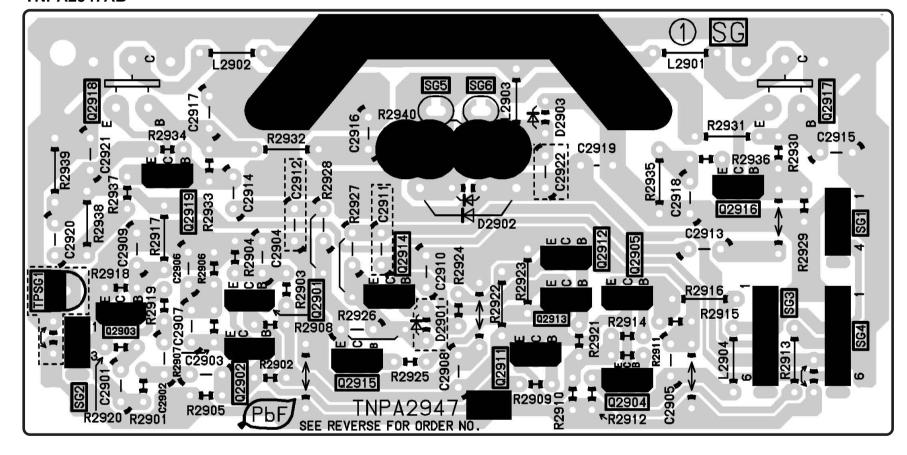
TX-47P800HQ/HZ LG-Board TNPA2333AJ LR-Board TNPA2332AJ LB-Board TNPA2334AJ

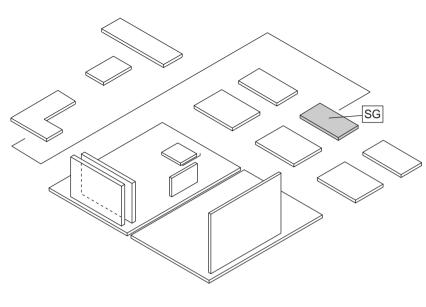
A B C D E F G H I





# SG-BOARD TNPA2947AB





# **Parts Location**

SG-BOARD						
TRANSISTOR						
Q2901	B-3	Q2913	E-3			
Q2902	B-2	Q2914	C-3			
Q2903	B-2	Q2915	C-2			
Q2904	E-2	Q2916	F-3			
Q2905	E-3	Q2917	F-4			
Q2911	D-2	Q2918	B-4			
Q2912	E-3	Q2919	B-3			

TX-47P800HQ/HZ SG-Board TNPA2947AB TX-47P800HQ/HZ SG-Board TNPA2947AB

Α

В

:

D

F

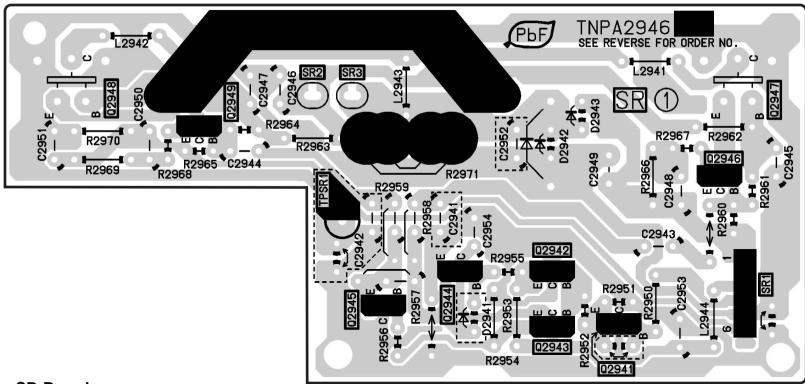
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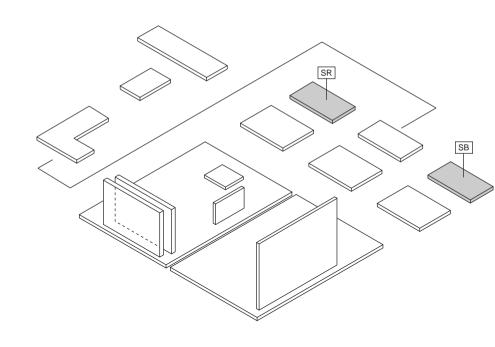
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G

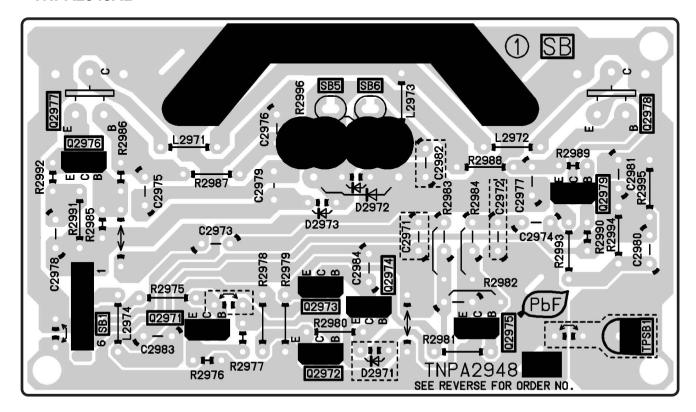
OO Board THIT







# SB-Board TNPA2948AB



#### **Parts Location**

SR-BOARD						
TRANSISTOR						
Q2971	B-1	Q2977	A-3			
Q2972	C-1	Q2978	E-3			
Q2973	C-2	Q2979	E-2			
Q2974	C-2					
Q2975	D-1					
Q2976	A-2					
Q2976	A-2					

## **Parts Location**

SB-BOARD TRANSISTOR					
E-4	Q2948	A-6			
E-4	Q2949	B-6			
D-4					
C-4					
F-5					
	E-4 E-4 E-4 D-4 C-4	E-4 Q2947 E-4 Q2948 E-4 Q2949 D-4 C-4			

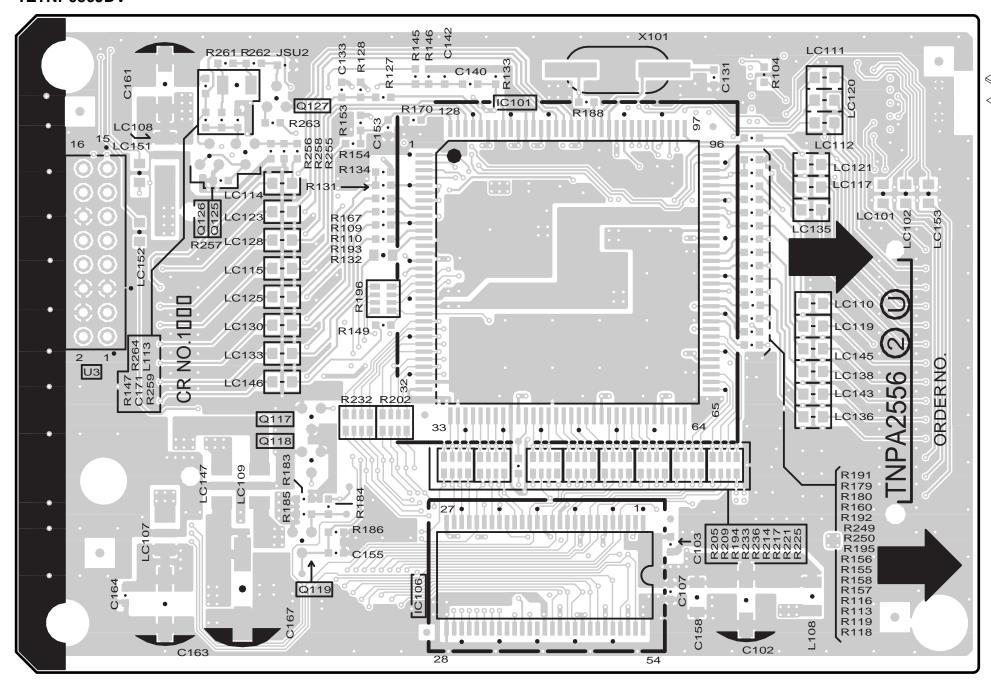
TX-47P800HQ/HZ SR-Board TNPA2946AB

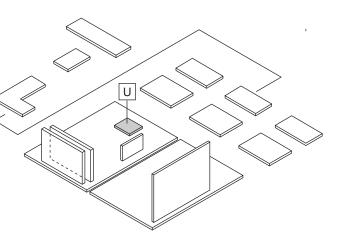
Α

TX-47P800HQ/HZ SB-Board TNPA2948AB TX-47P800HQ/HZ SR-Board TNPA2946AB TX-47P800HQ/HZ SB-BoardNPA2948AB

B C D E F G H I

# U-Board(COMPONENT SIDE) TZTNP030JDV





#### **Parts Location**

U-BOARD (COMPONENT SIDE)						
IC		TRANSISTO	TRANSISTOR			
IC1101	E-4	Q1117	C-3			
IC1106	D-2	Q1118	C-3			
	Q1119	C-2				
	Q1125	B-5				
	Q1126	B-5				
		Q1127	C-5			

TX-47P800HQ/HZ U-Board TZTNP030JDV TX-47P800HQ/HZ U-Board TZTNP030JDV

В

C

D

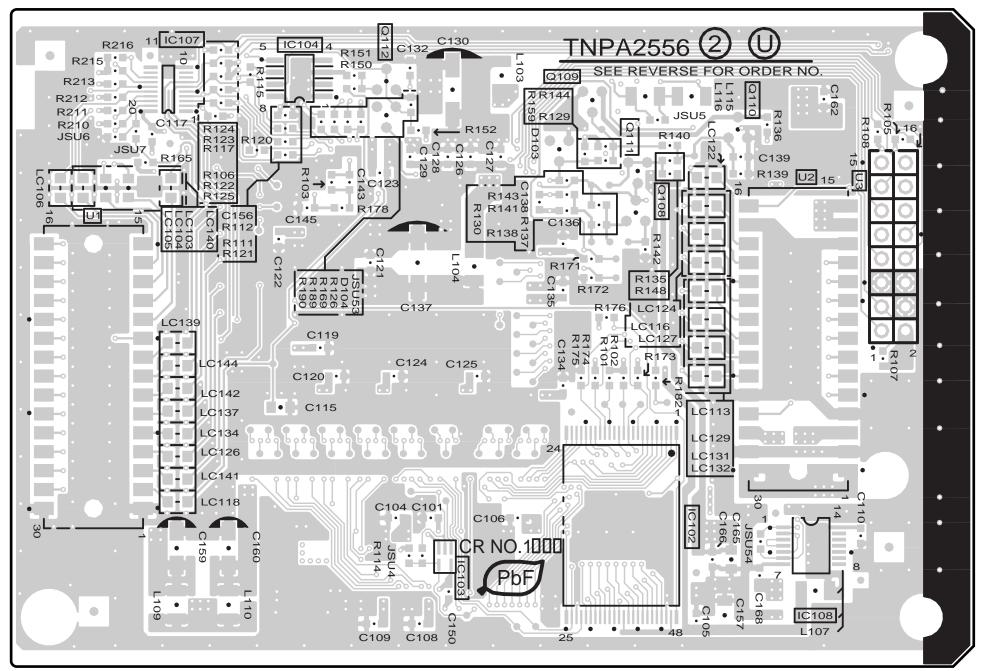
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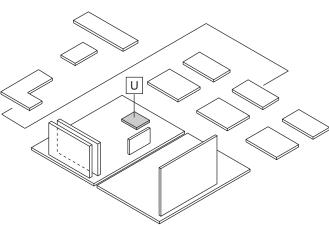
G

н

J-Board IZINP03

# U-Board(FOIL SIDE) TZTNP030JDV





#### **Parts Location**

	U-BOARD (FOIL SIDE)				
IC		TRANSISTO	R		
IC1102	E-2	Q1108	E-4		
IC1103	D-2	Q1109	E-5		
IC1104	C-5	Q1110	F-5		
IC1107	B-5	Q1111	E-5		
IC1108	F-2	Q1112	C-5		

TX-47P800HQ/HZ U-Board TZTNP030JDV TX-47P800HQ/HZ U-Board TZTNP030JDV

В

С

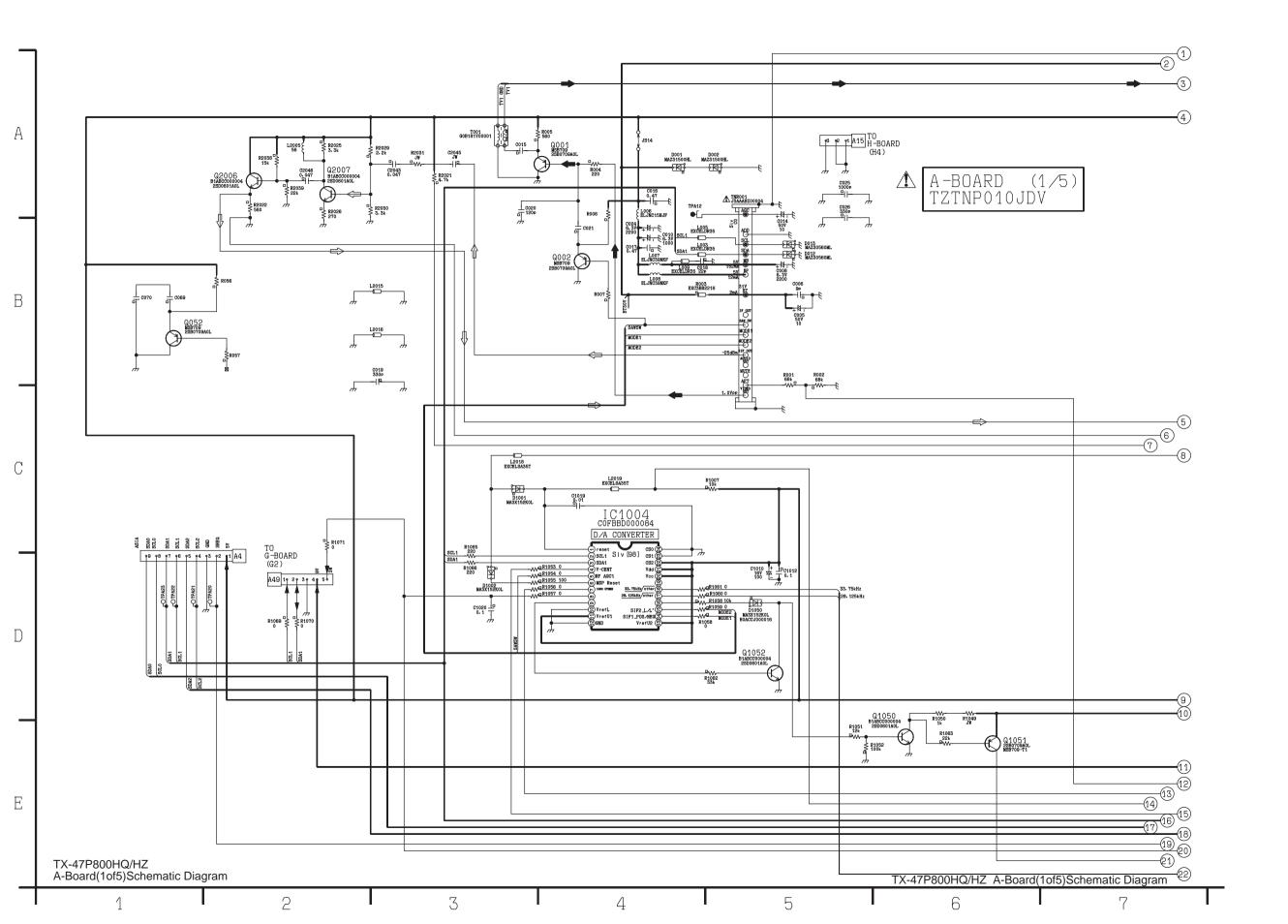
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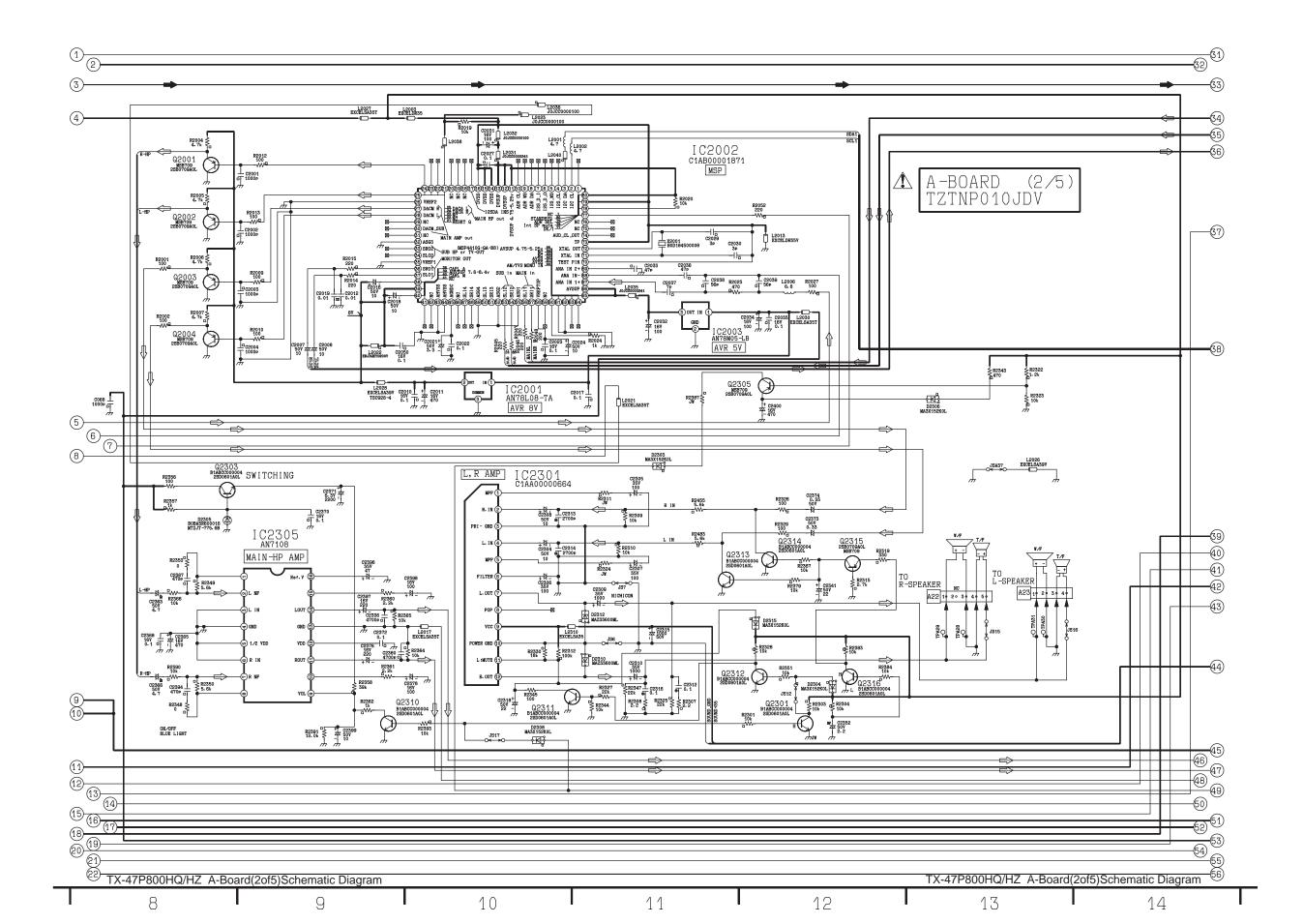
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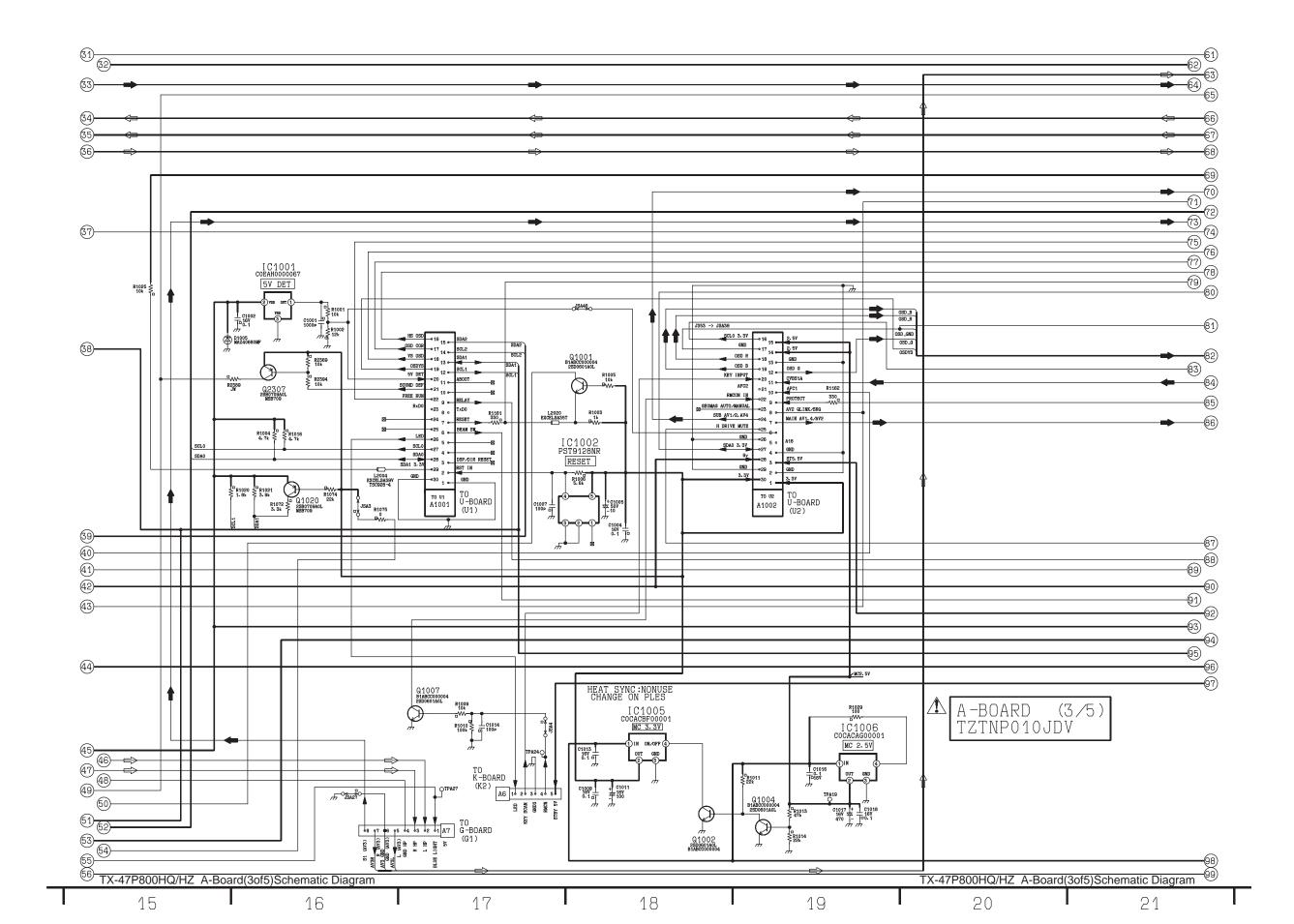
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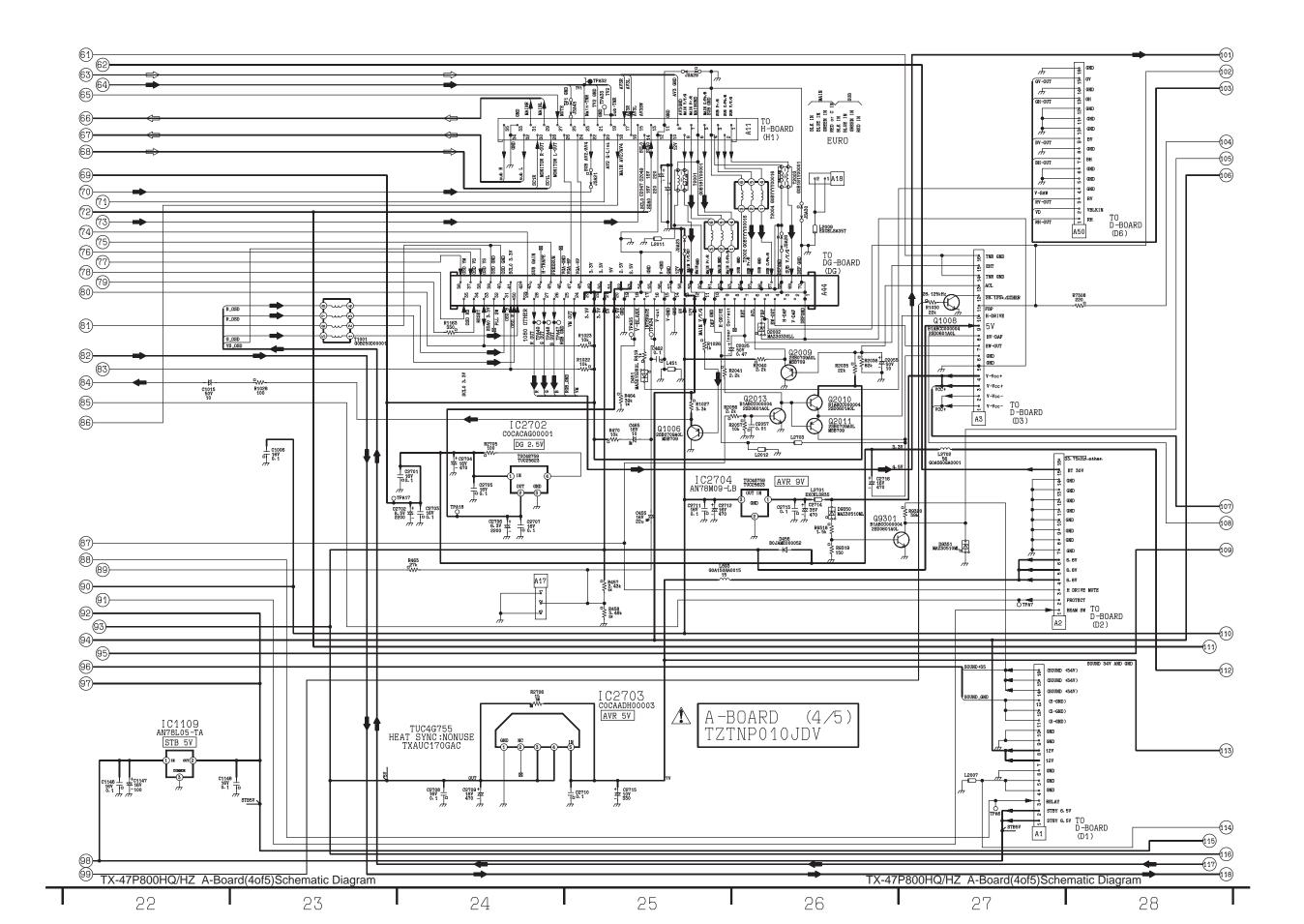
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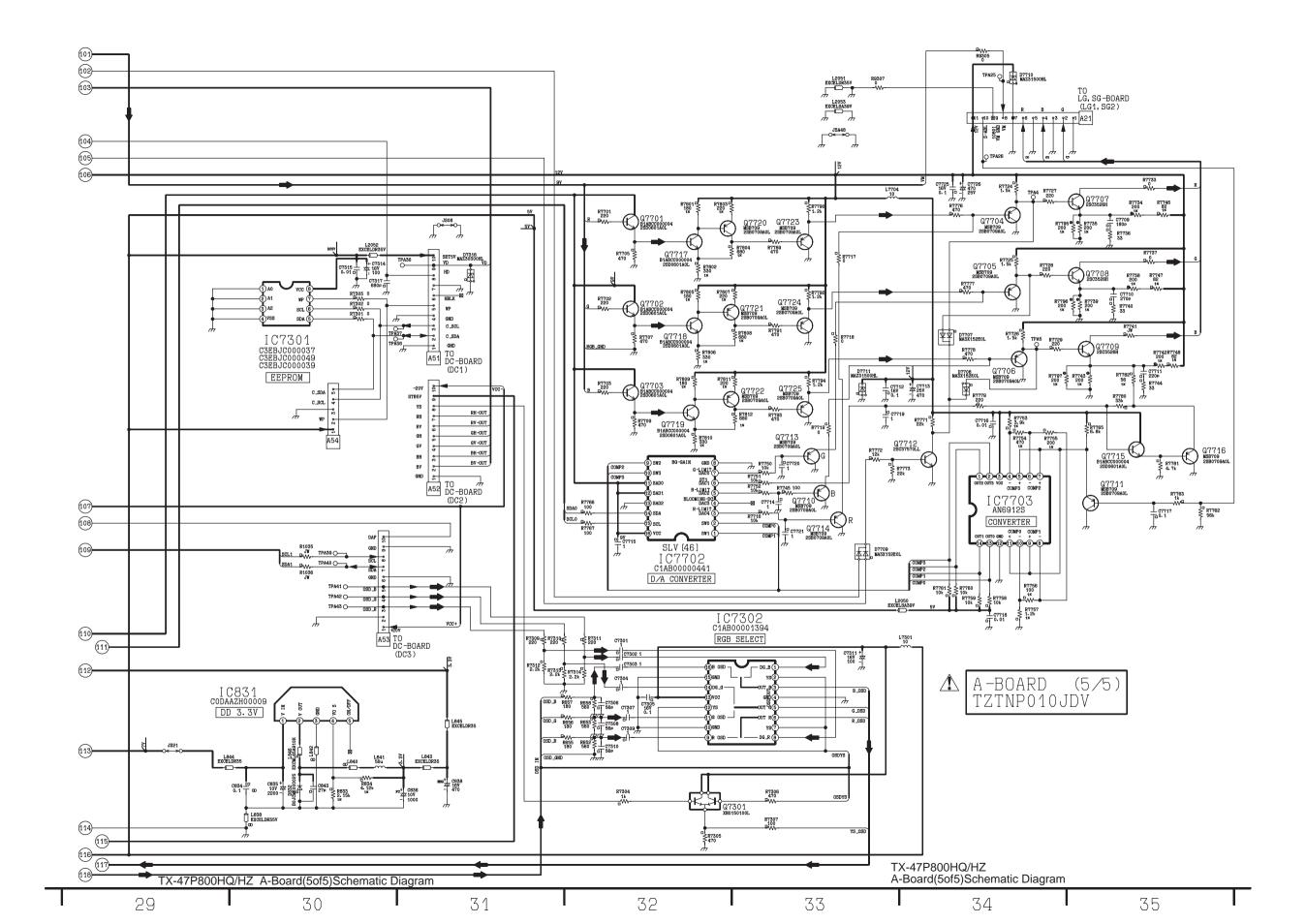
-Board IZINP03

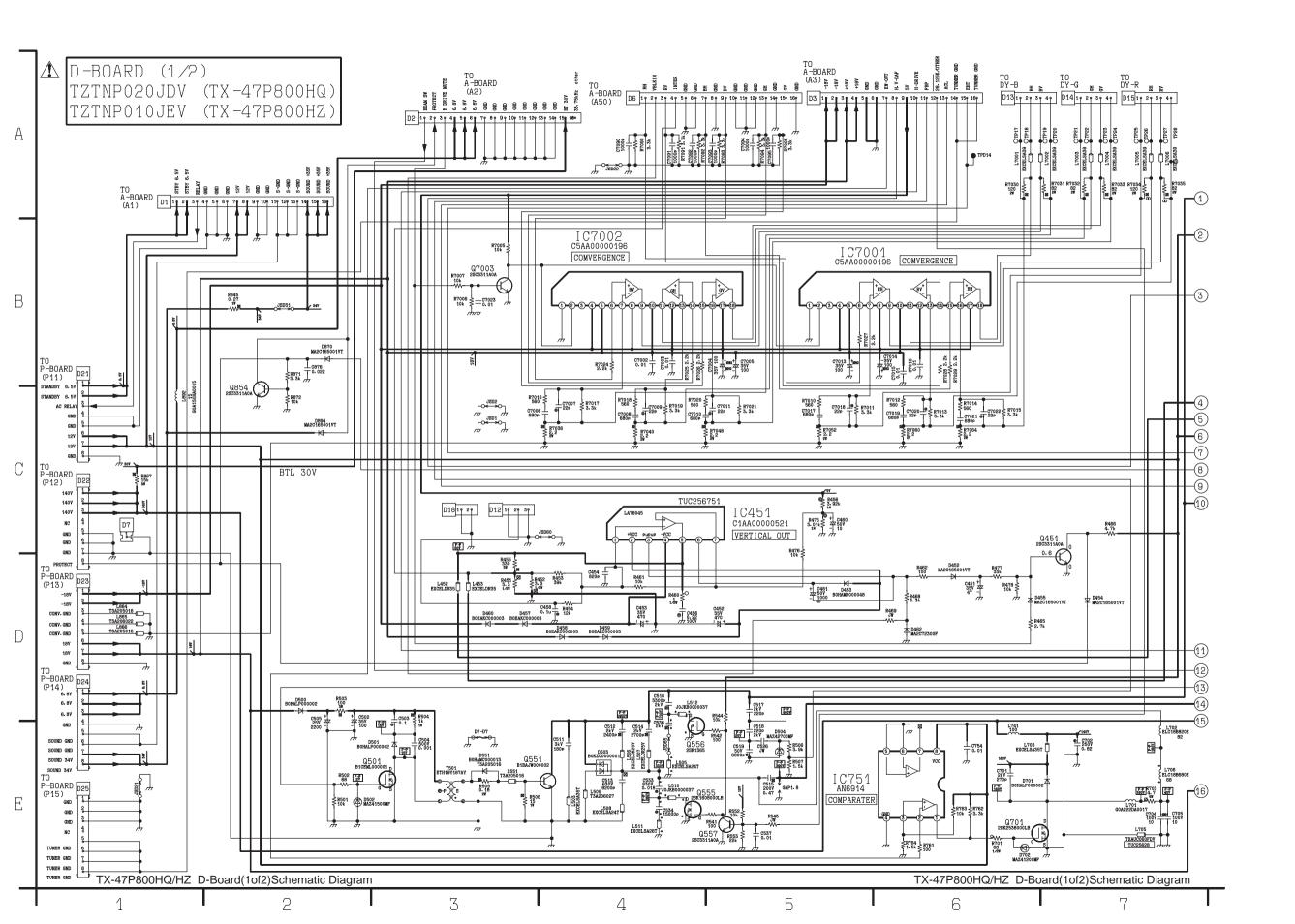


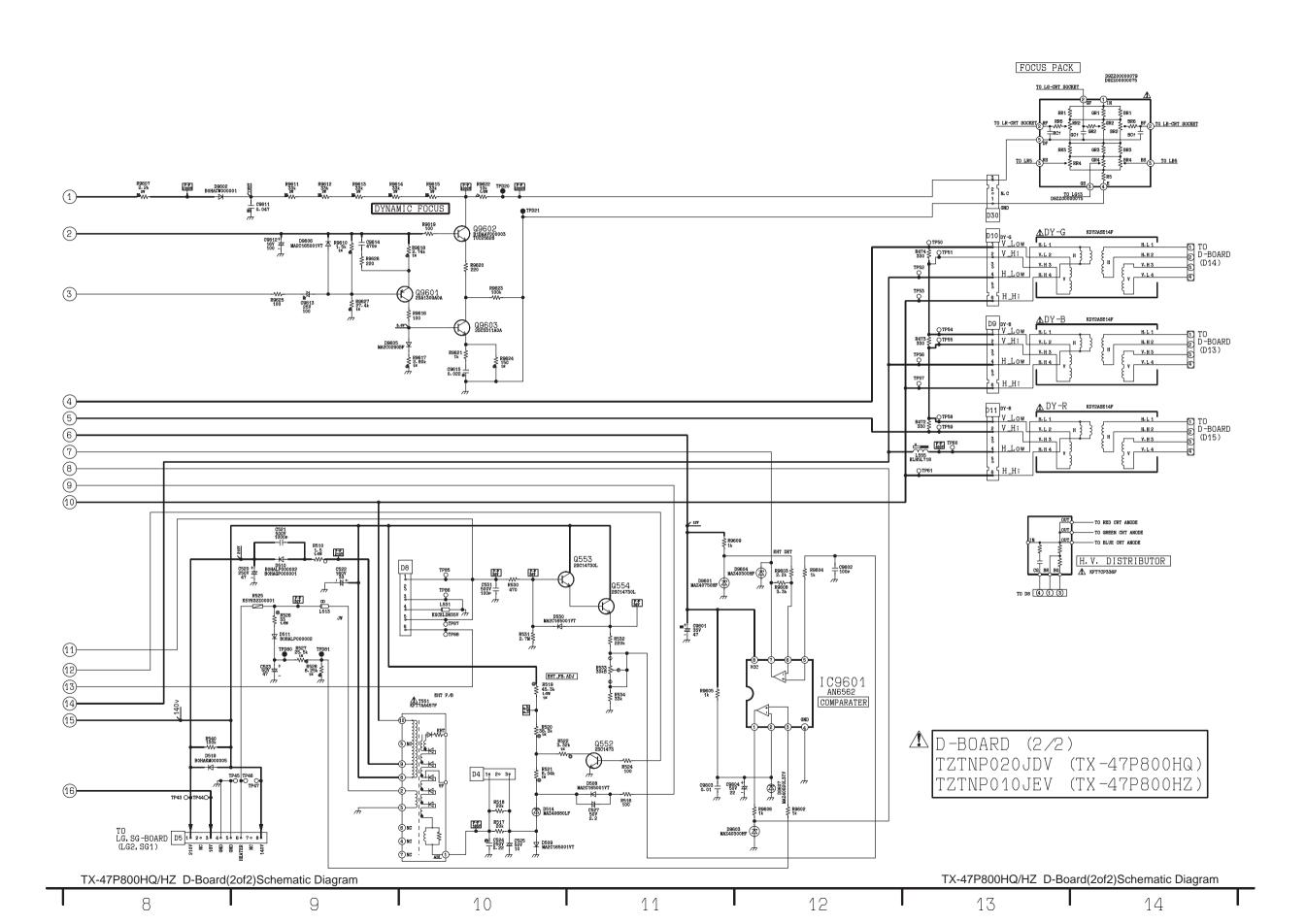


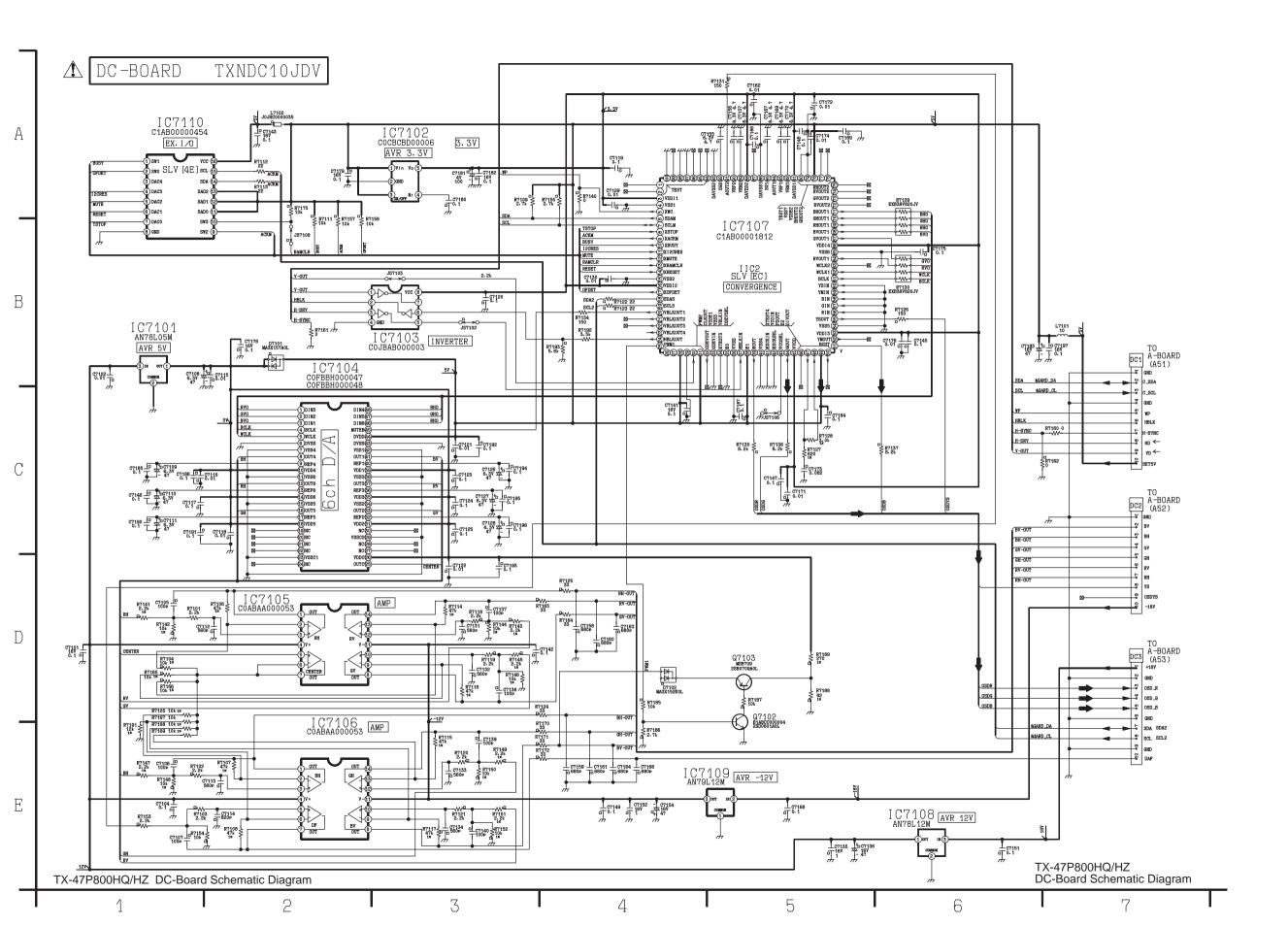


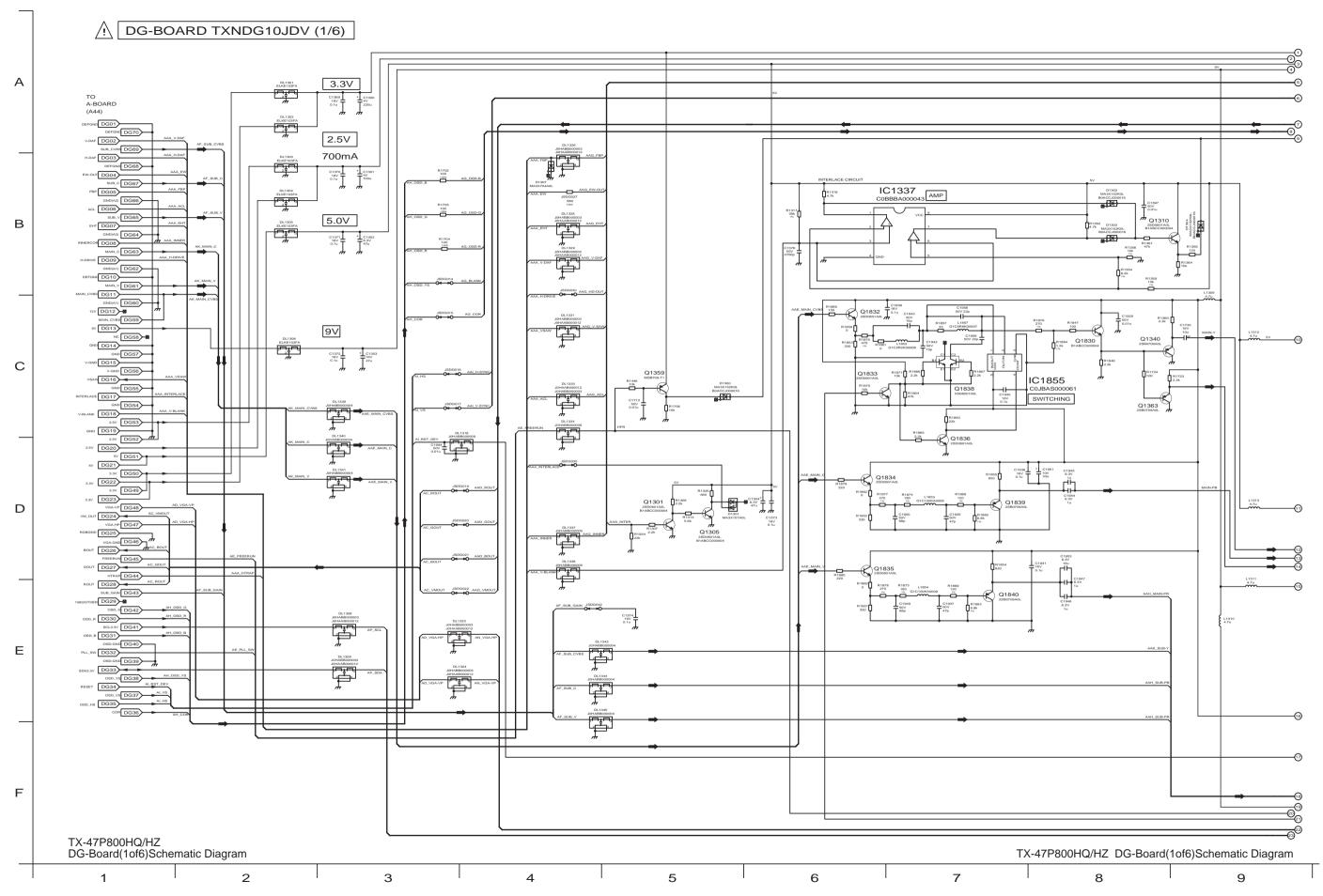


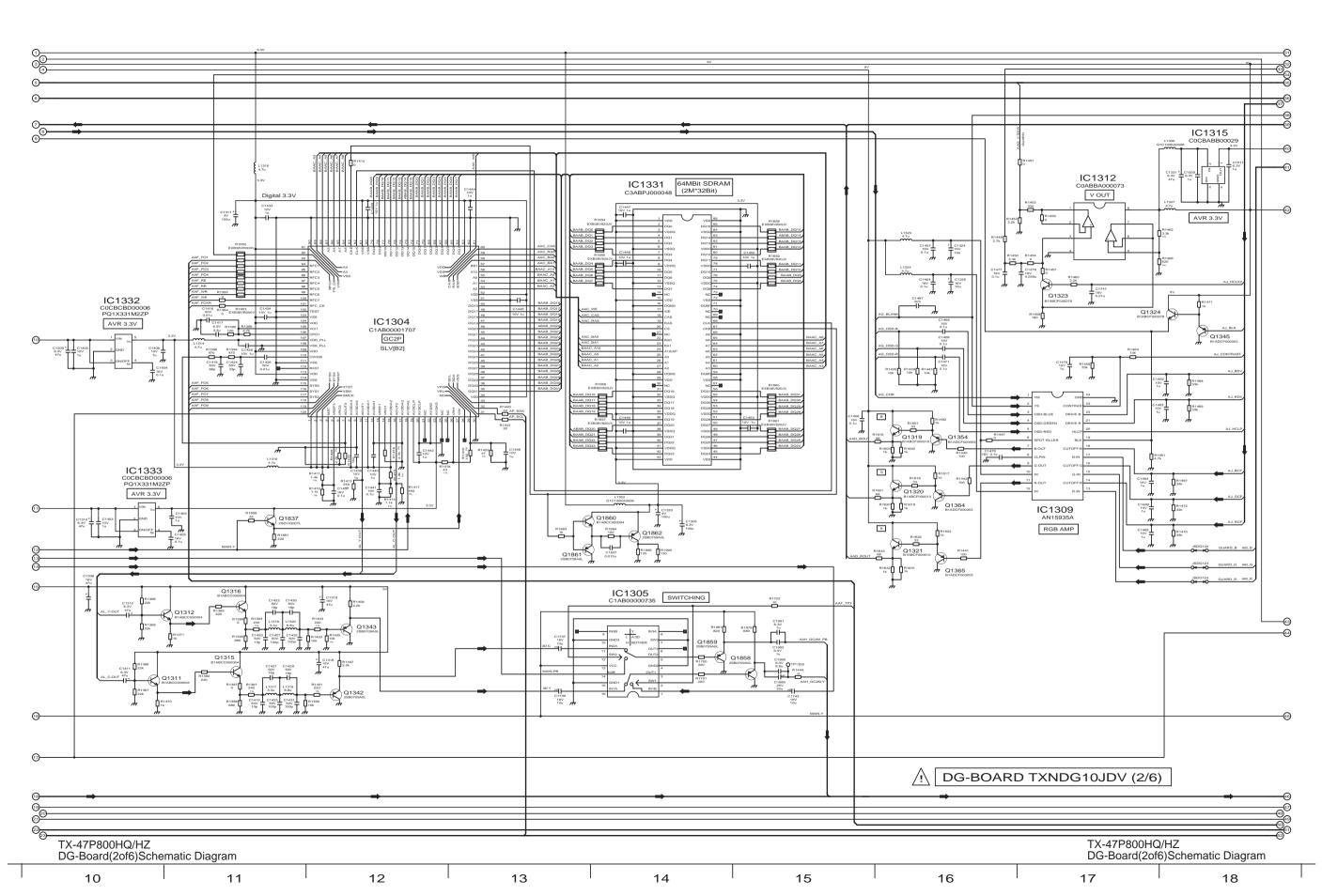


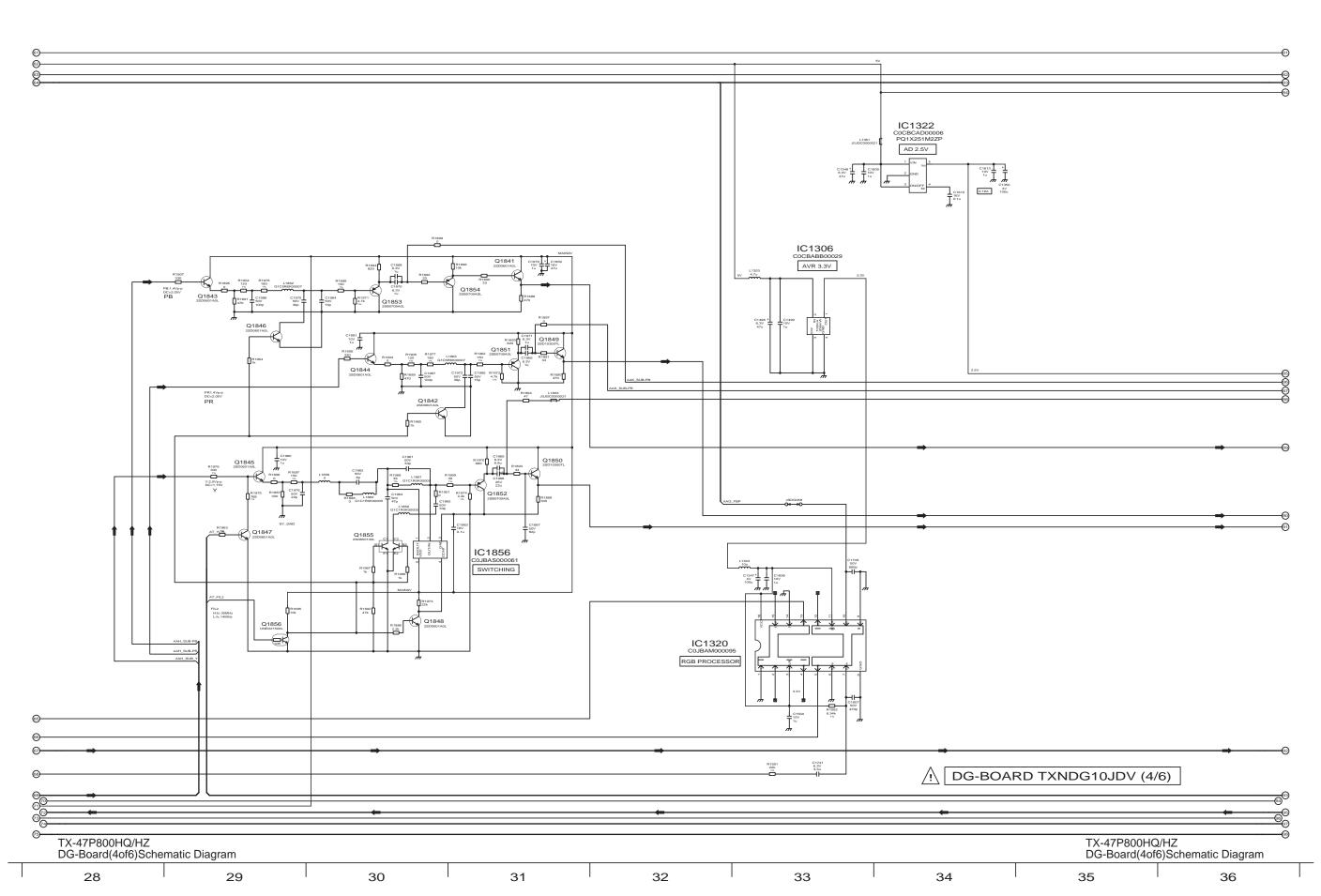


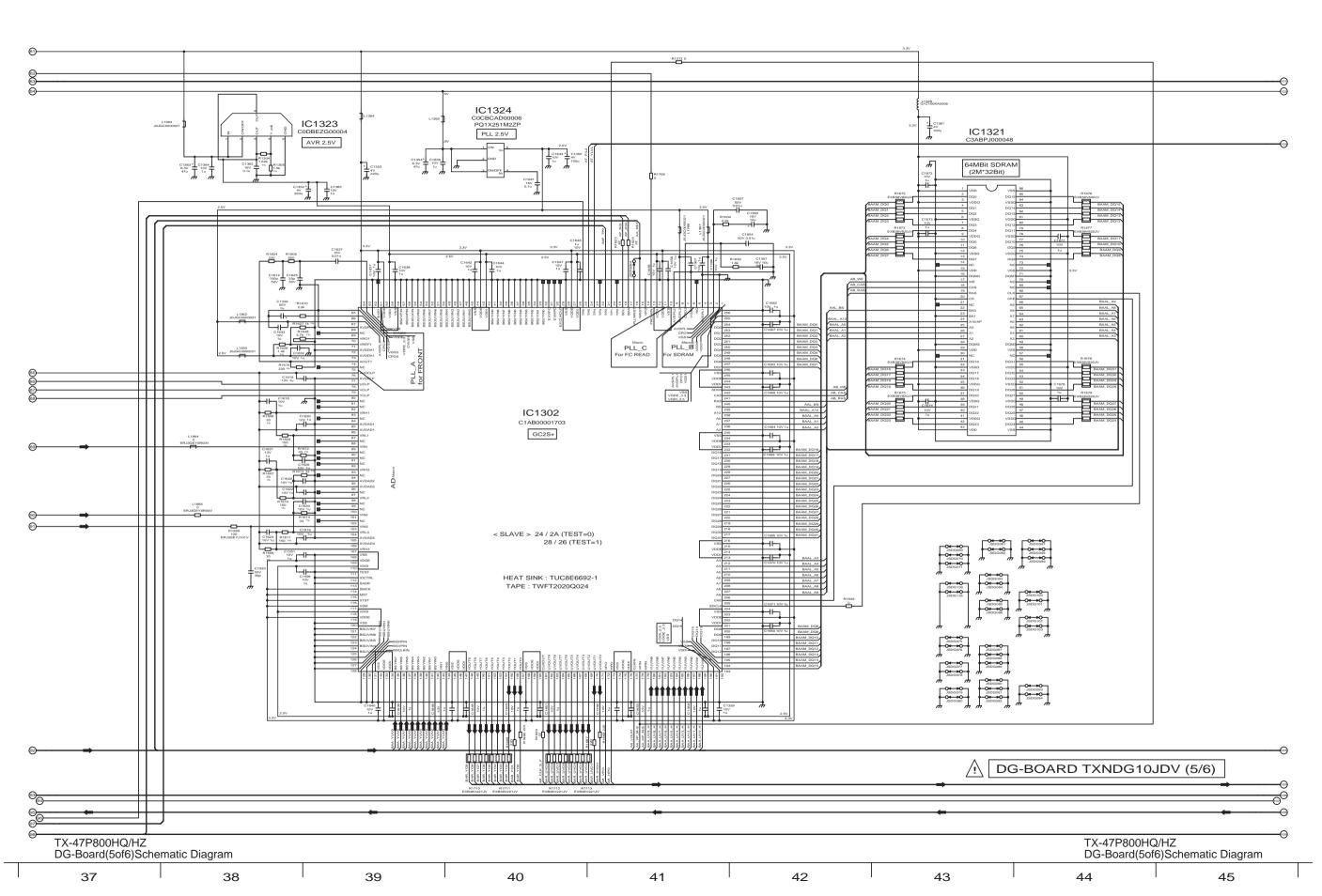


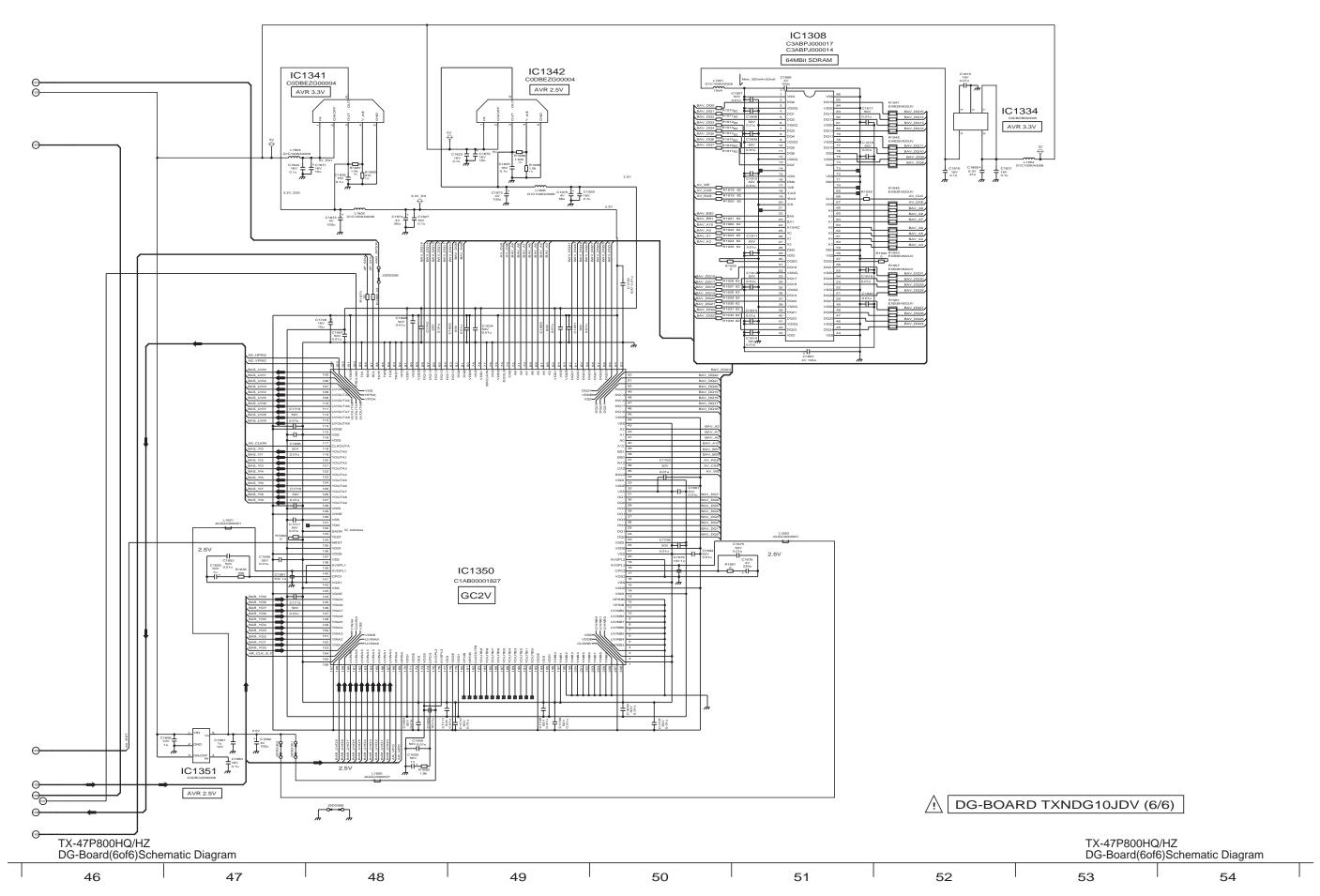


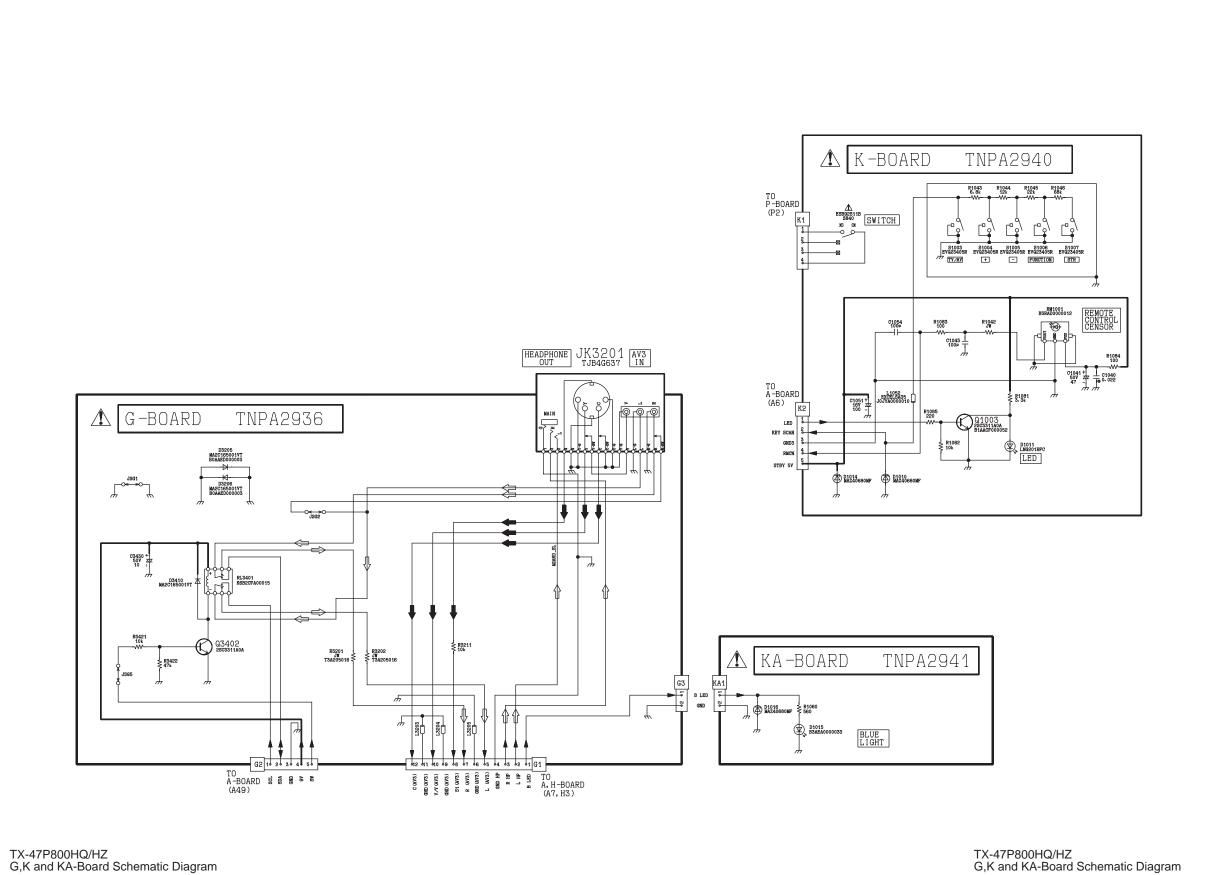










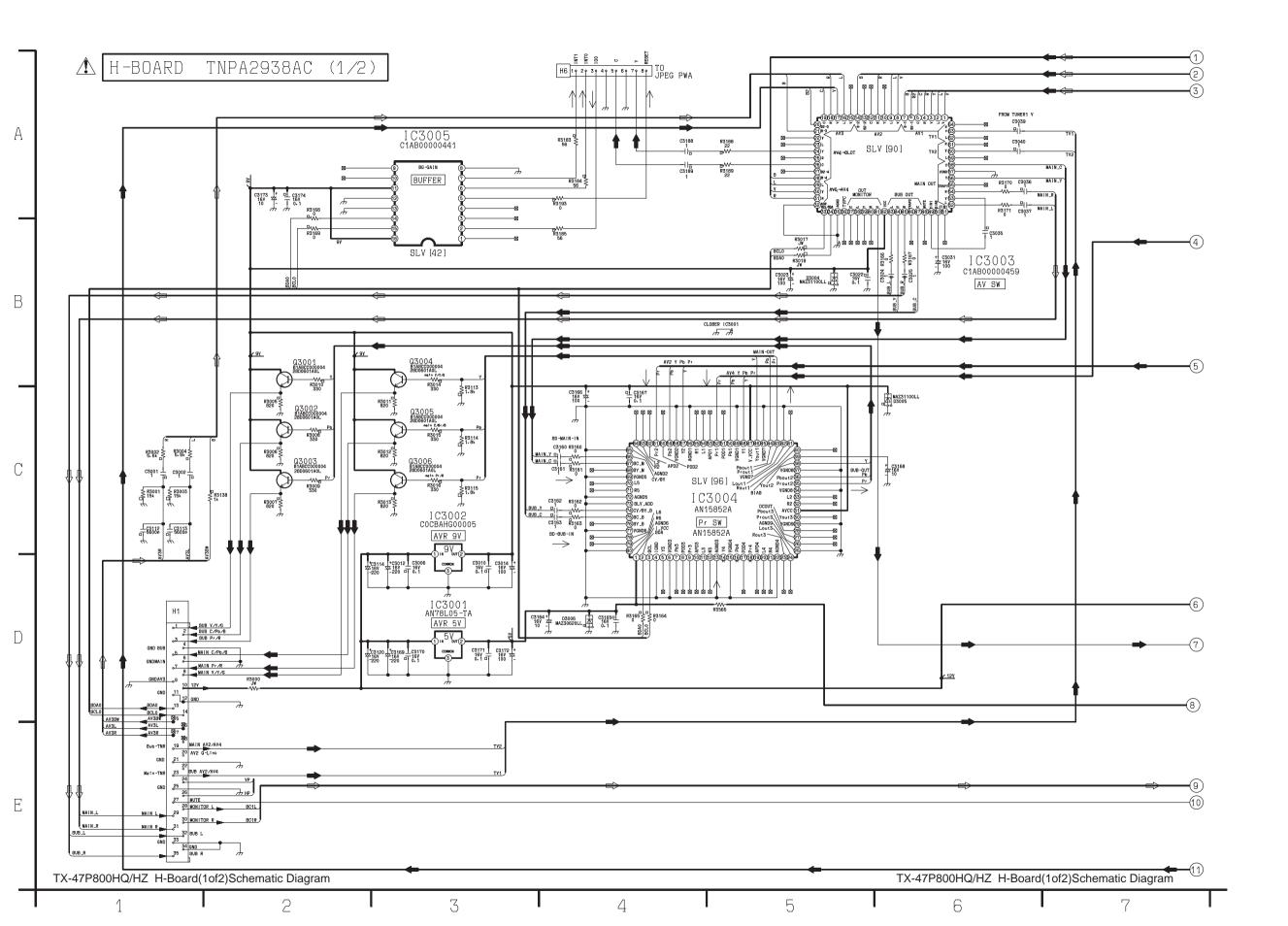


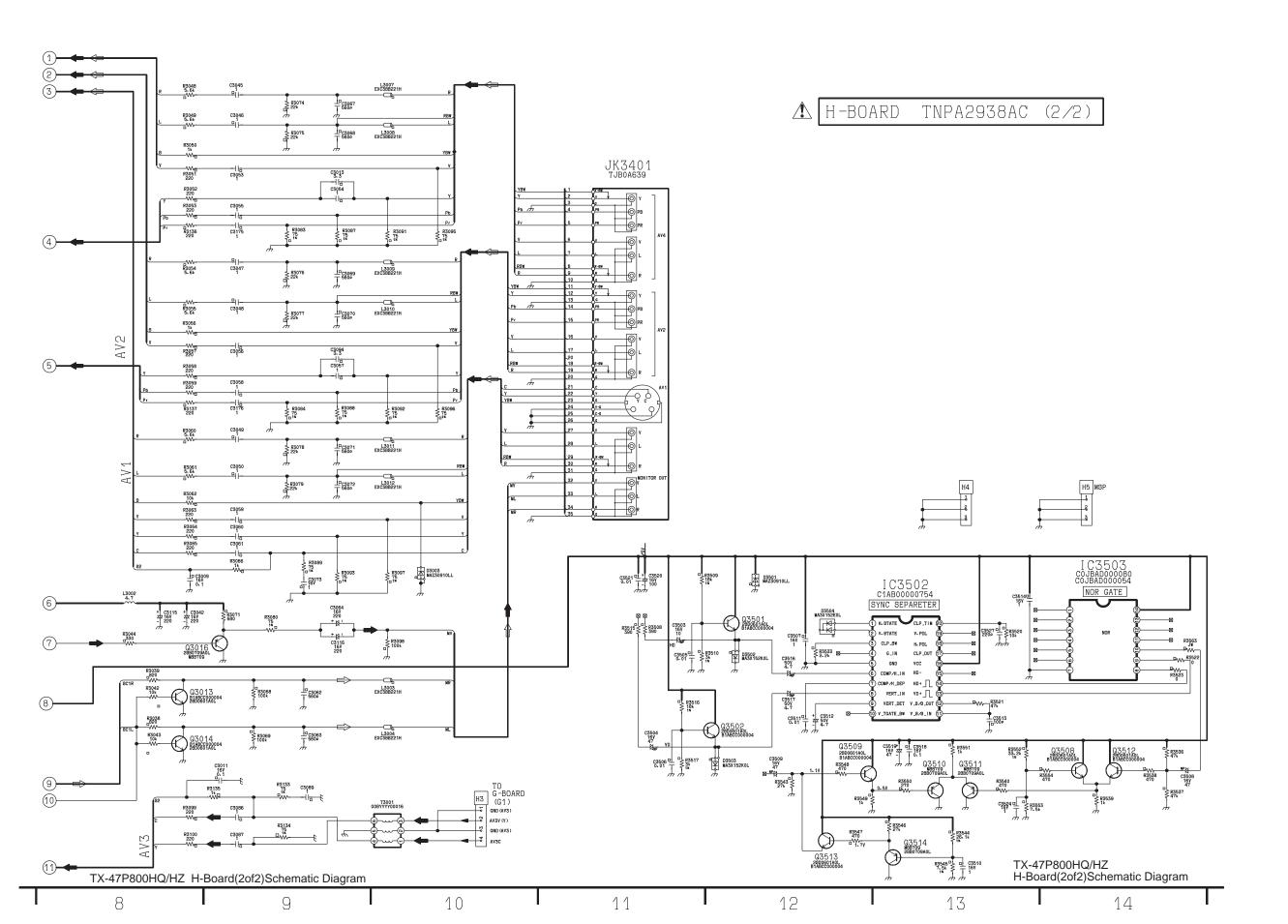
А

В

 $\square$ 

1 2 3 4 5 6 7





LG-BOARD TNPA2333AJ CRT DRIVE TO LR-BOARD (LR1) GREEN TO D-BOARD ( (D5) HEATER 140V TO A-BOARD LG1 (A21) GND GREEN GND BLUE LG13 FOCUS PACK G2 R3384 3.3k (G1) S-ABL 12V LG4 TO LB-BOARD (LB1)

TX-47P800HQ/HZ
LG-Board Schematic Diagram

1 2 3 4

Α

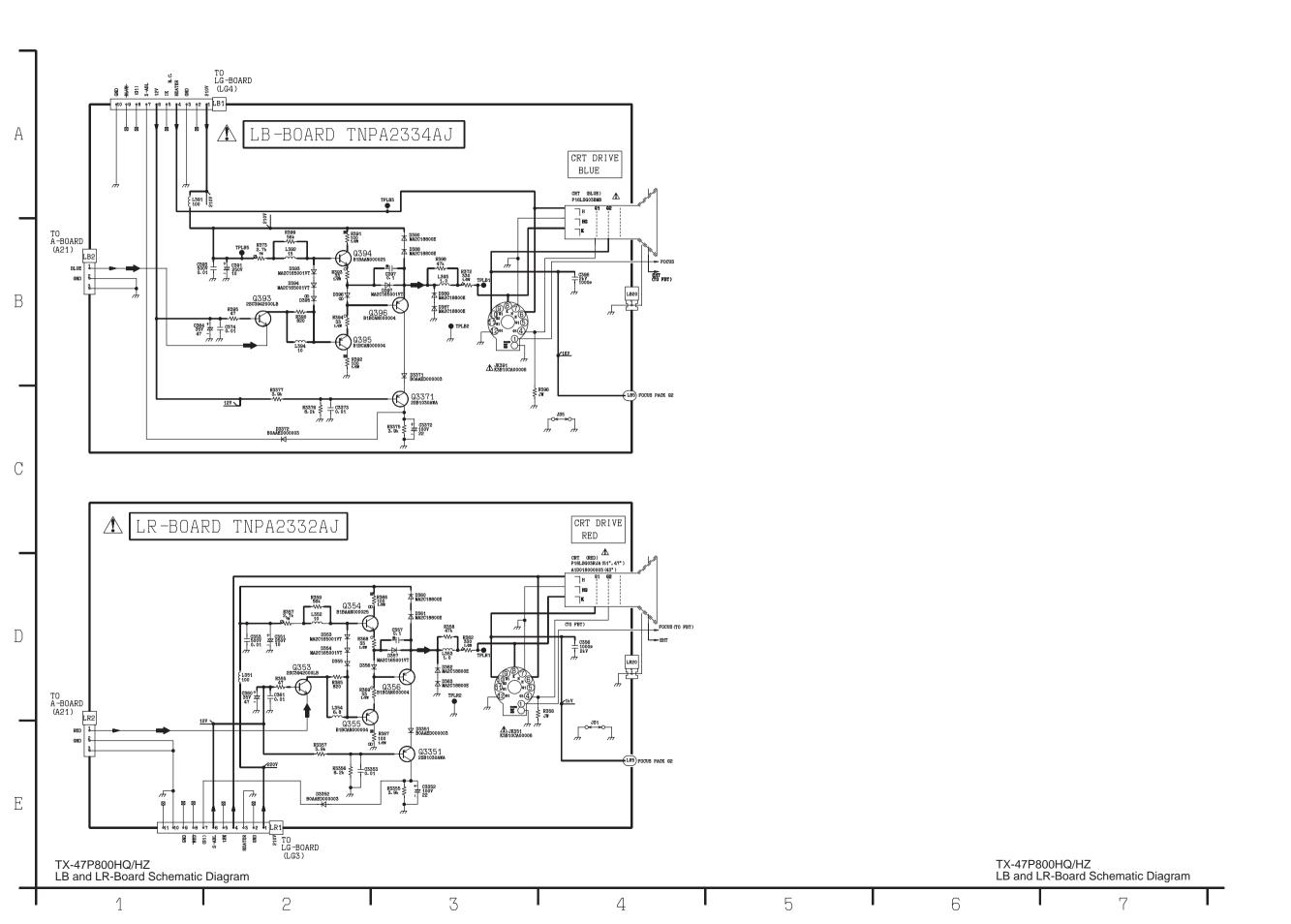
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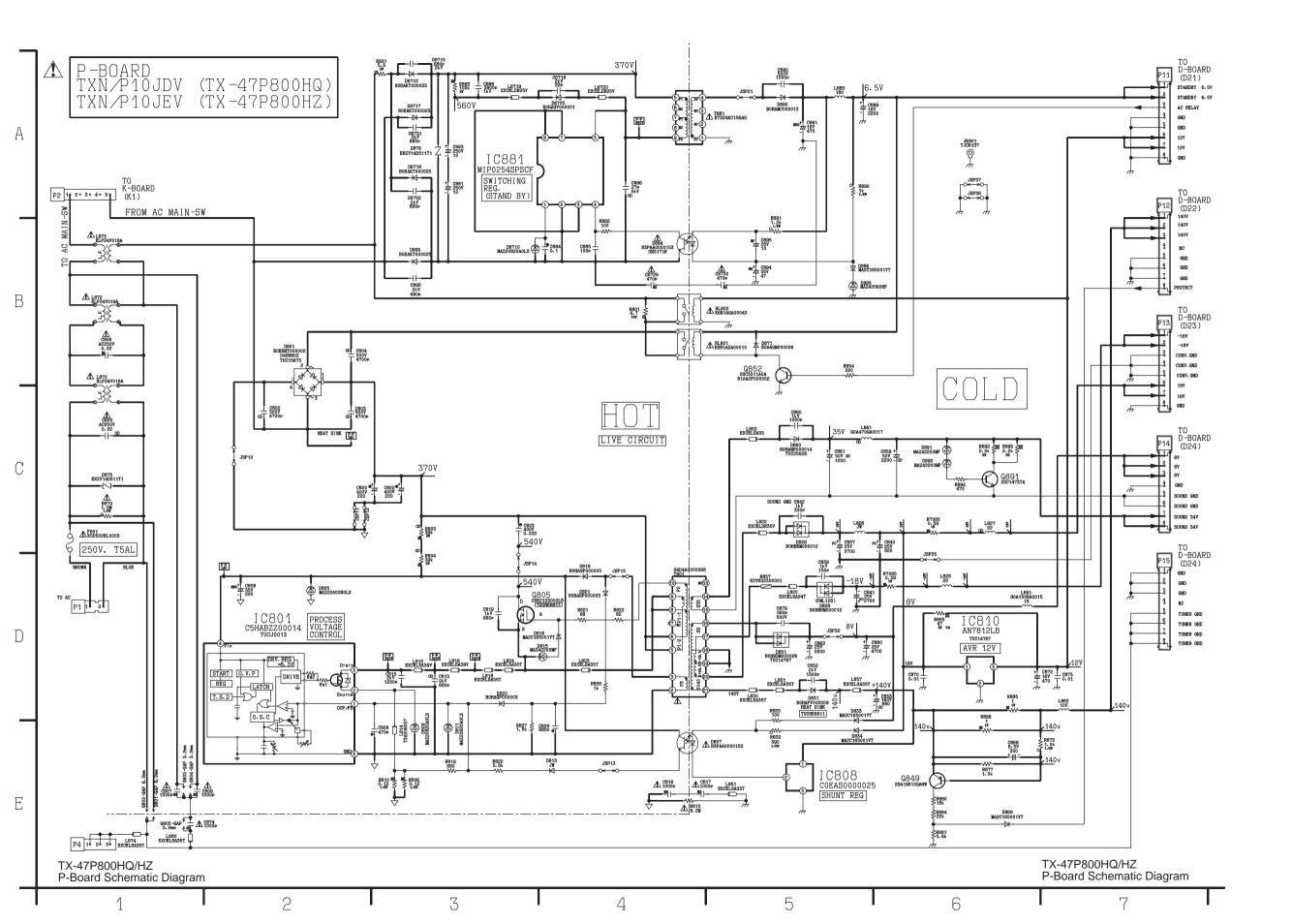
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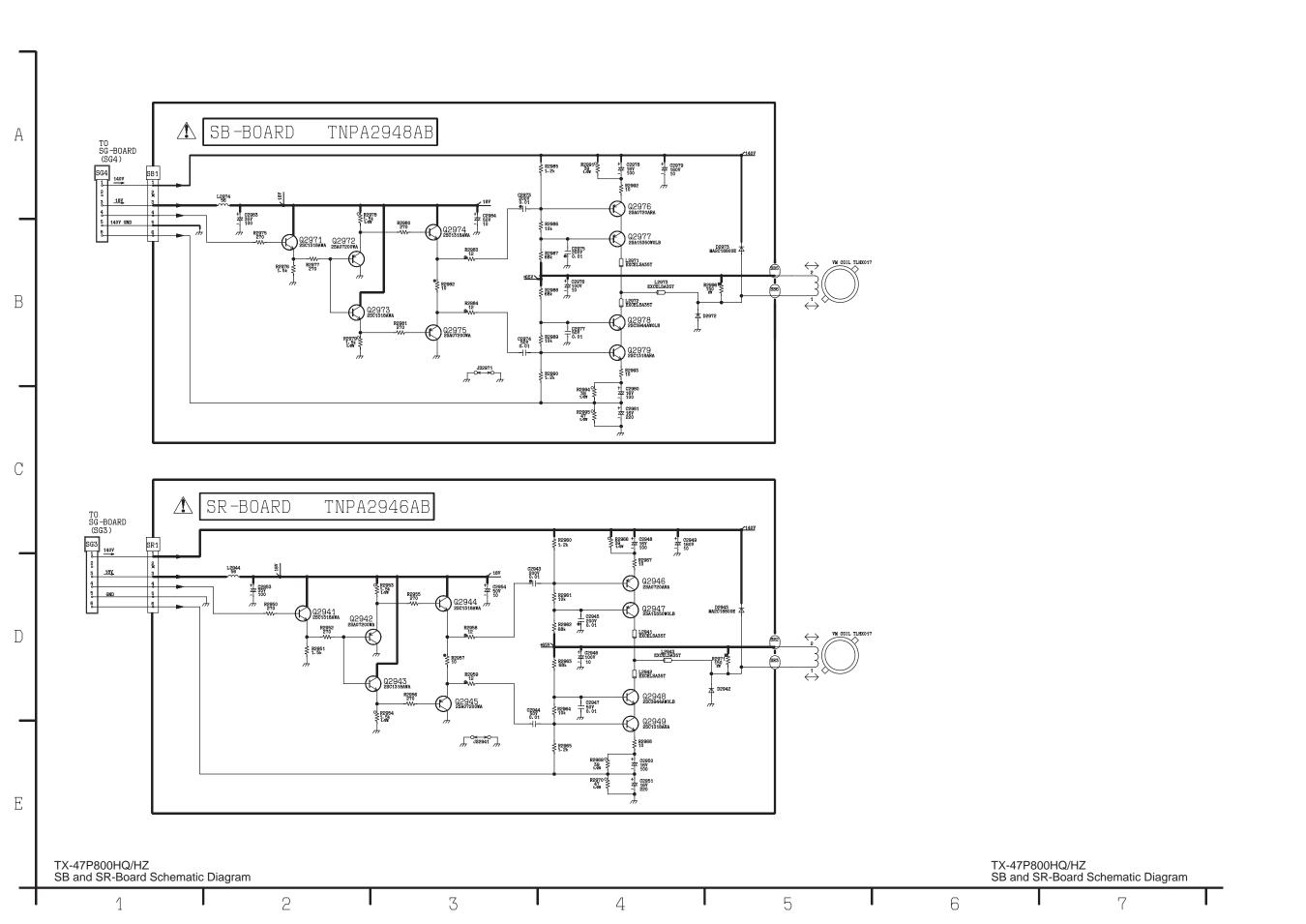
TX-47P800HQ/HZ LG-Board Schematic Diagram

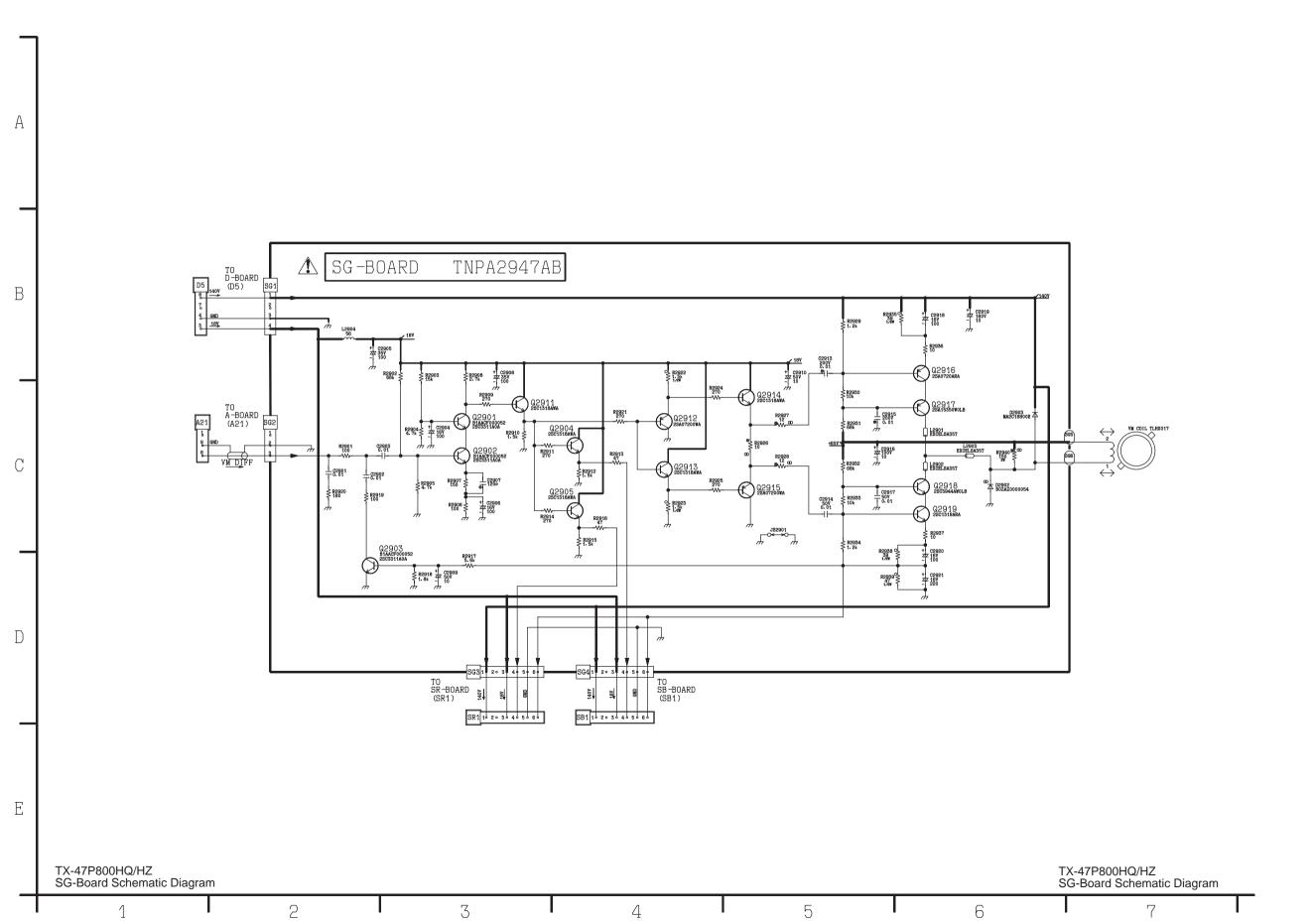
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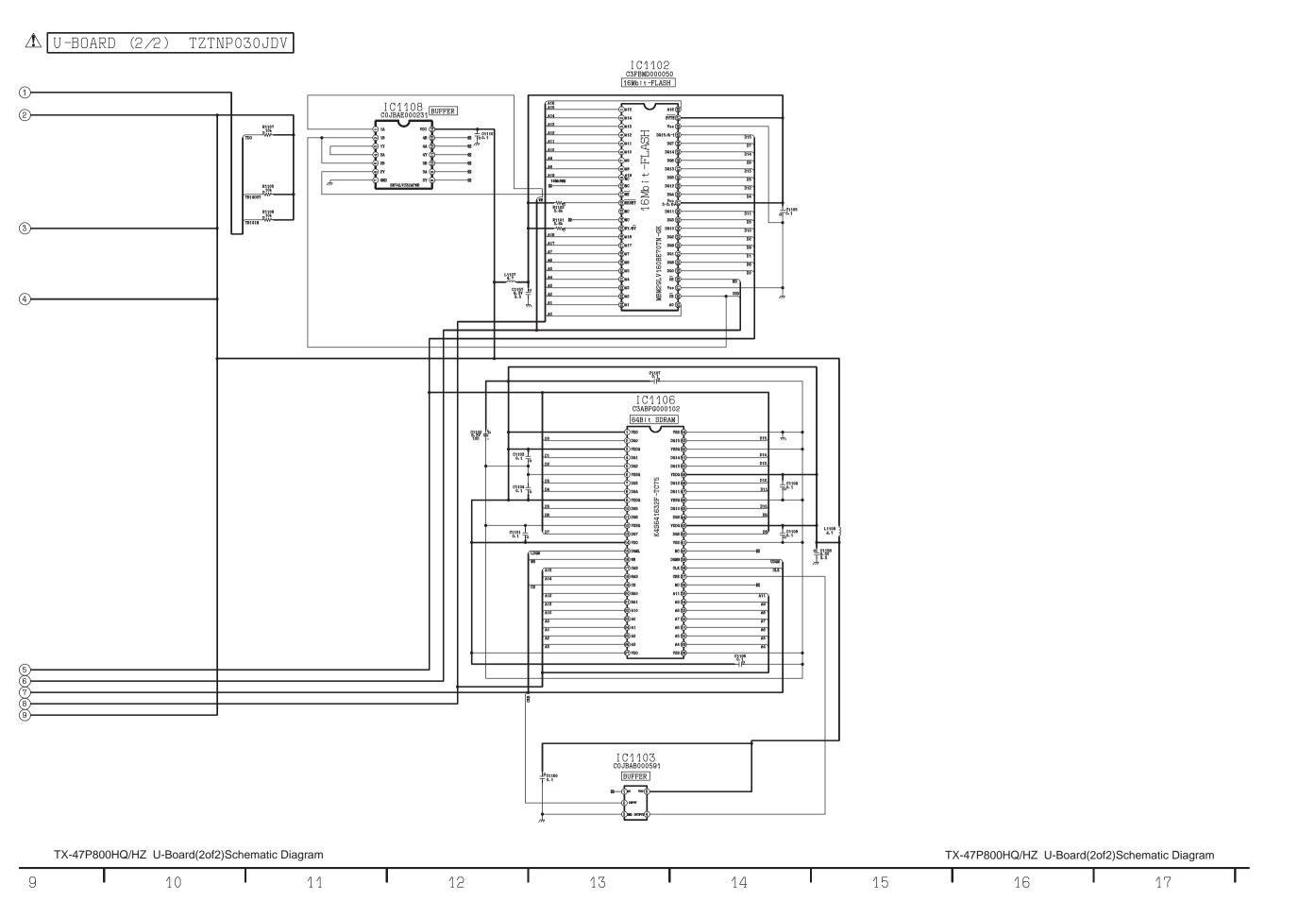
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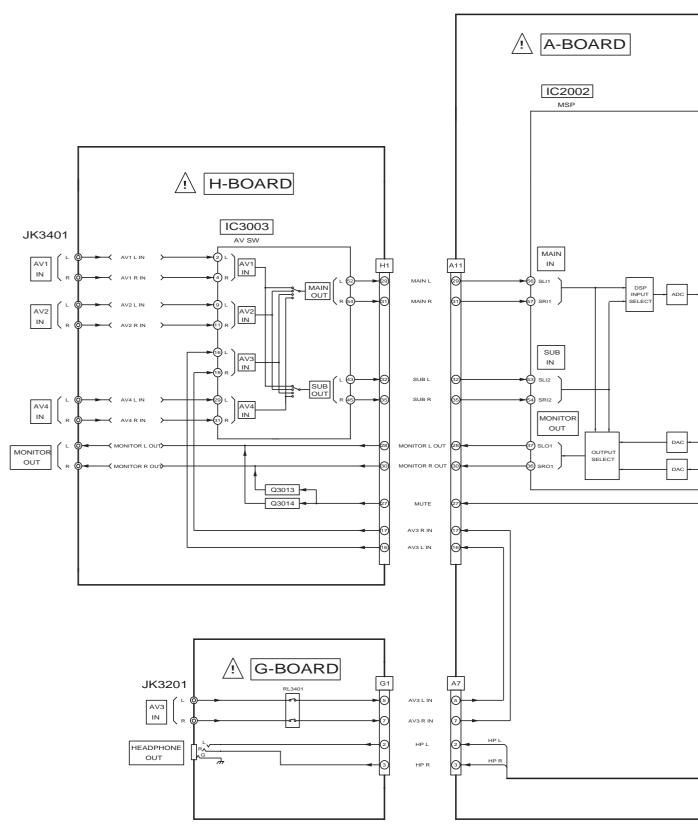




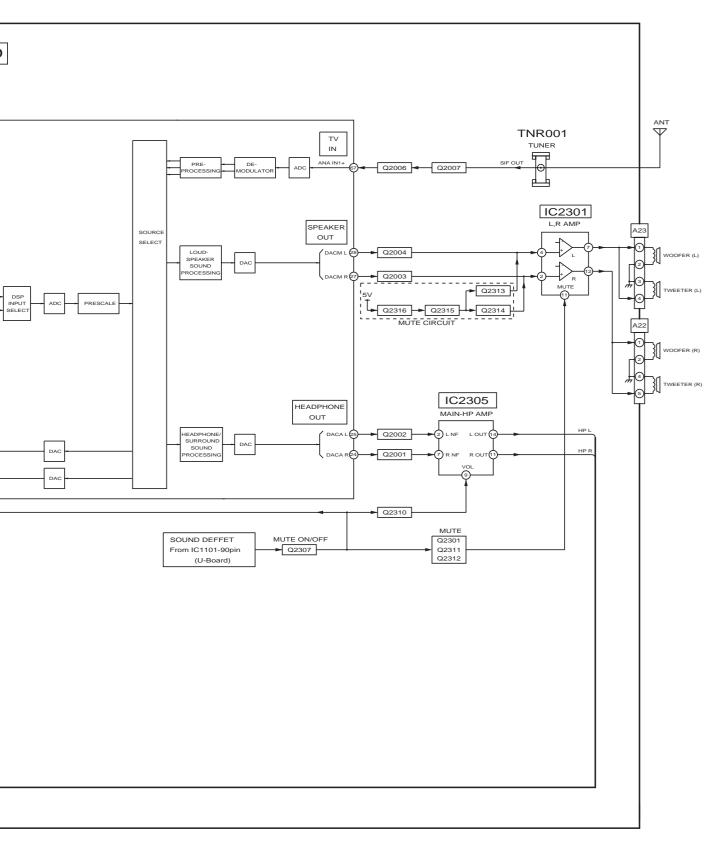


# 13 Block Diagram

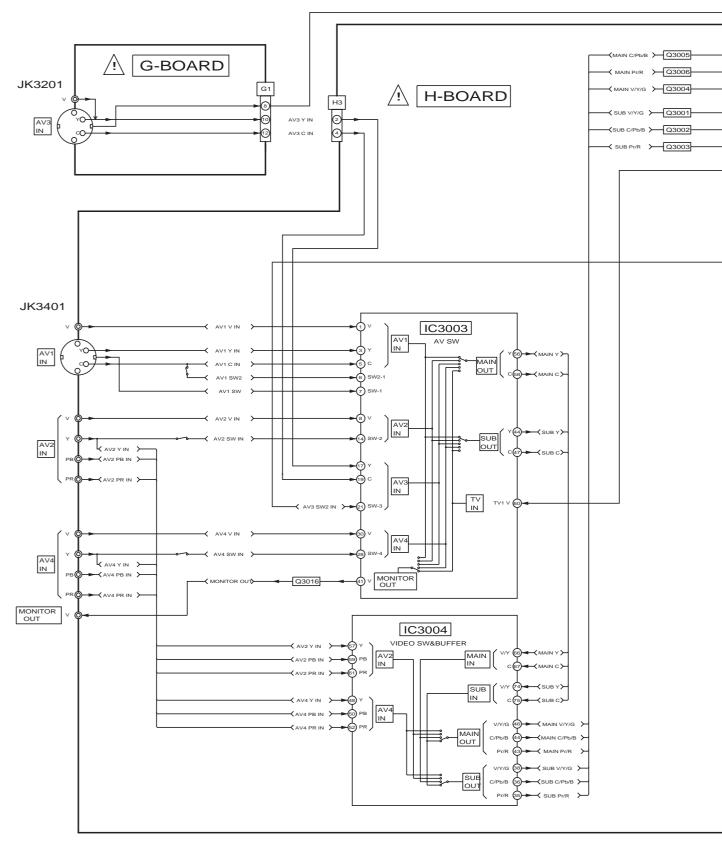
## 13.1. Audio Block Diagram



TX-47P800HQ/HZ Audio Block Diagram

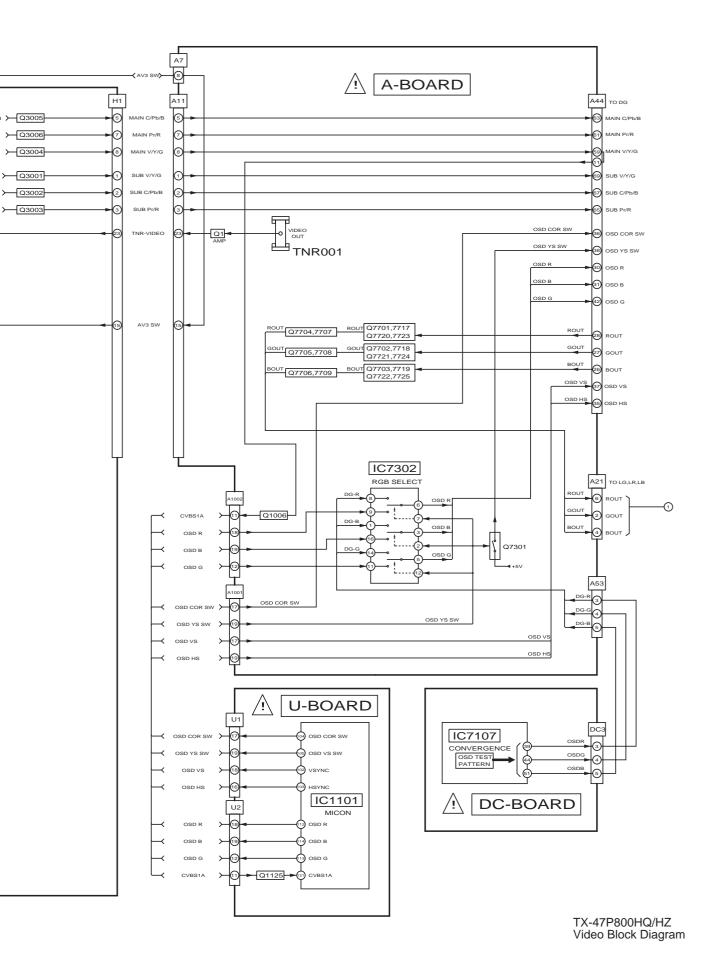


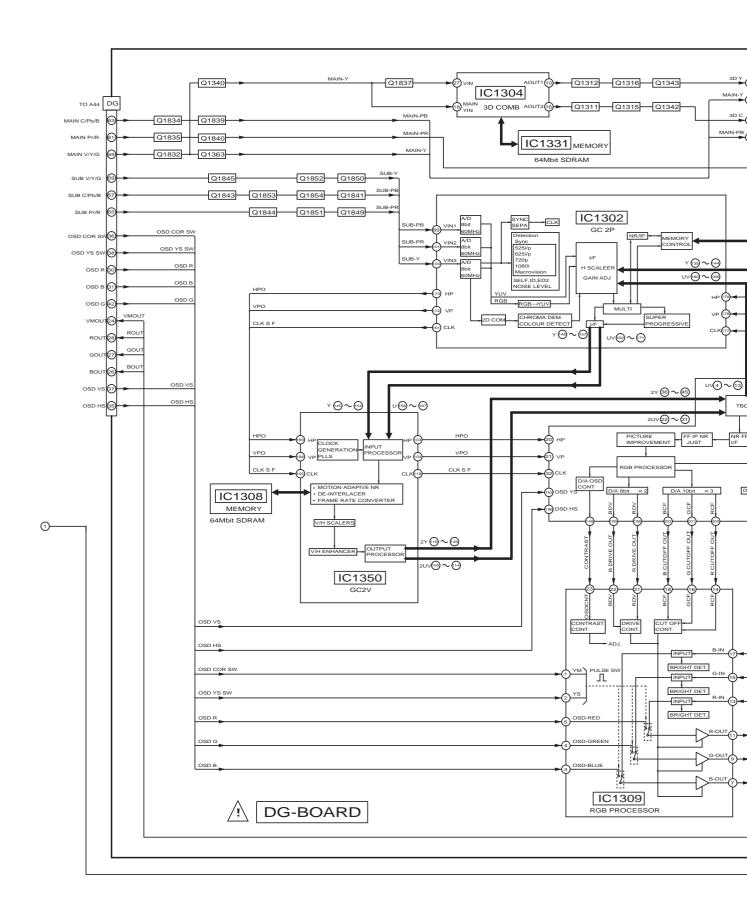
### 13.2. Video Block Diagram



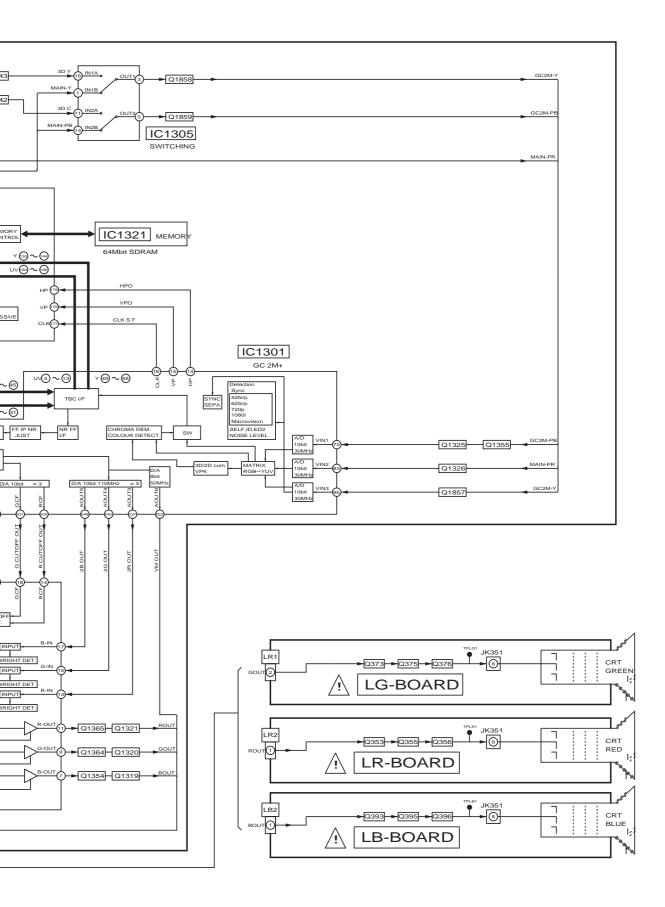
TX-47P800HQ/HZ Video Block Diagram







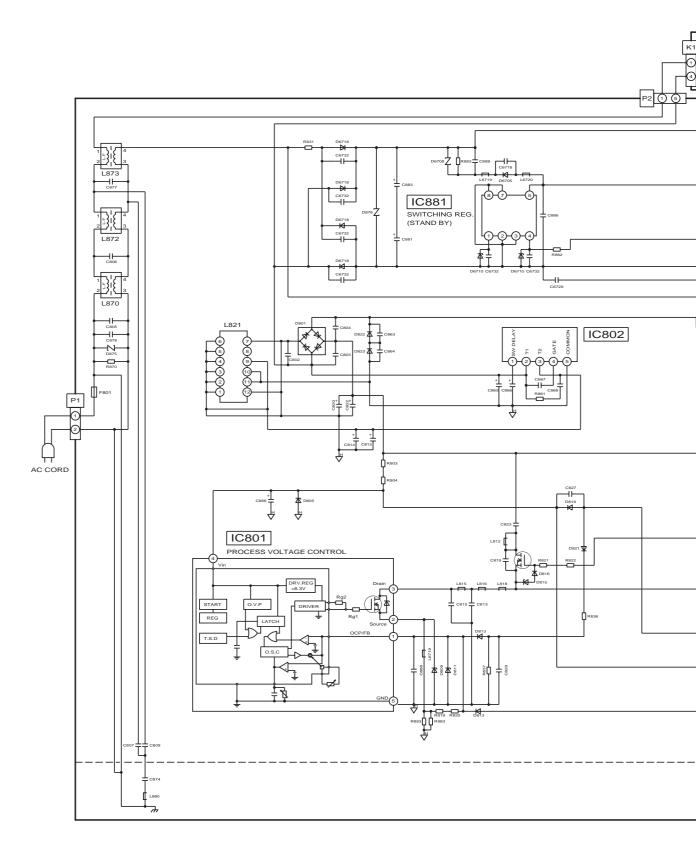
TX-47P800HQ/HZ Video Block Diagram



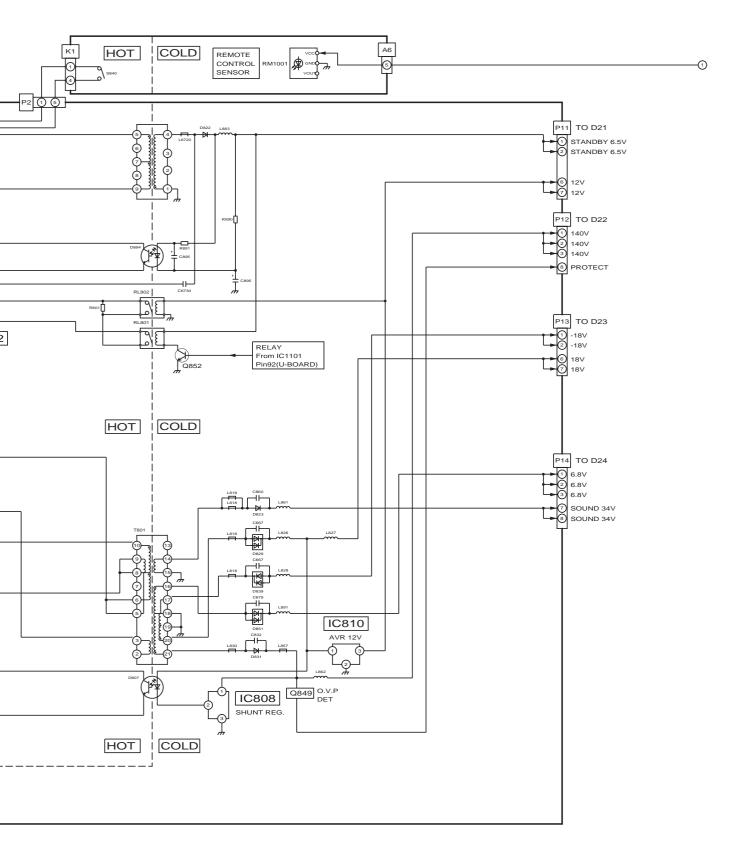
TX-47P800HQ/HZ Video Block Diagram

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## 13.3. Power Block Diagram

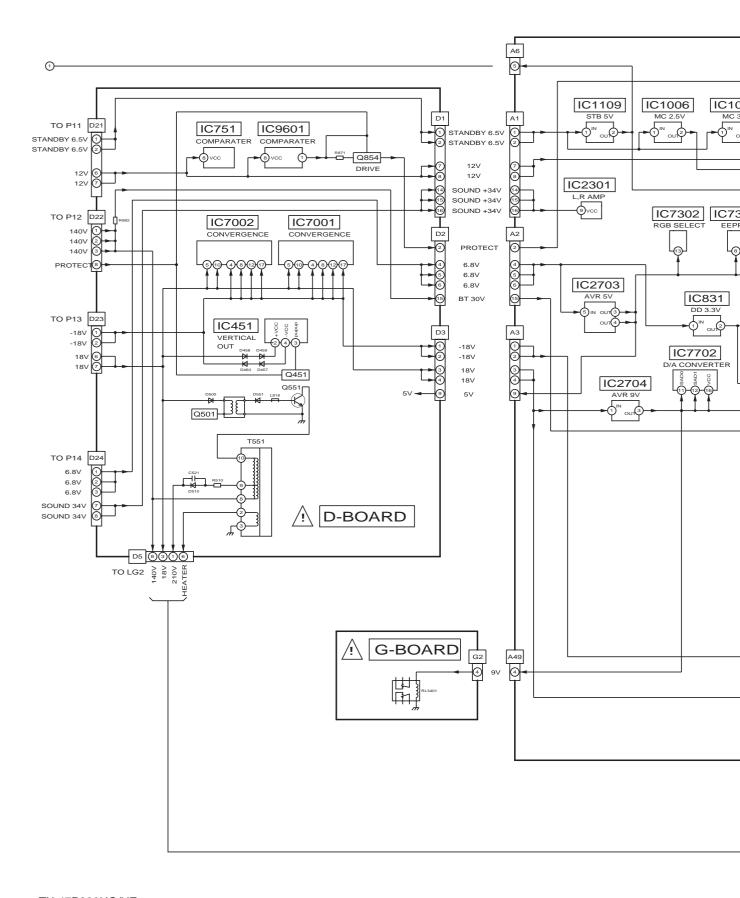




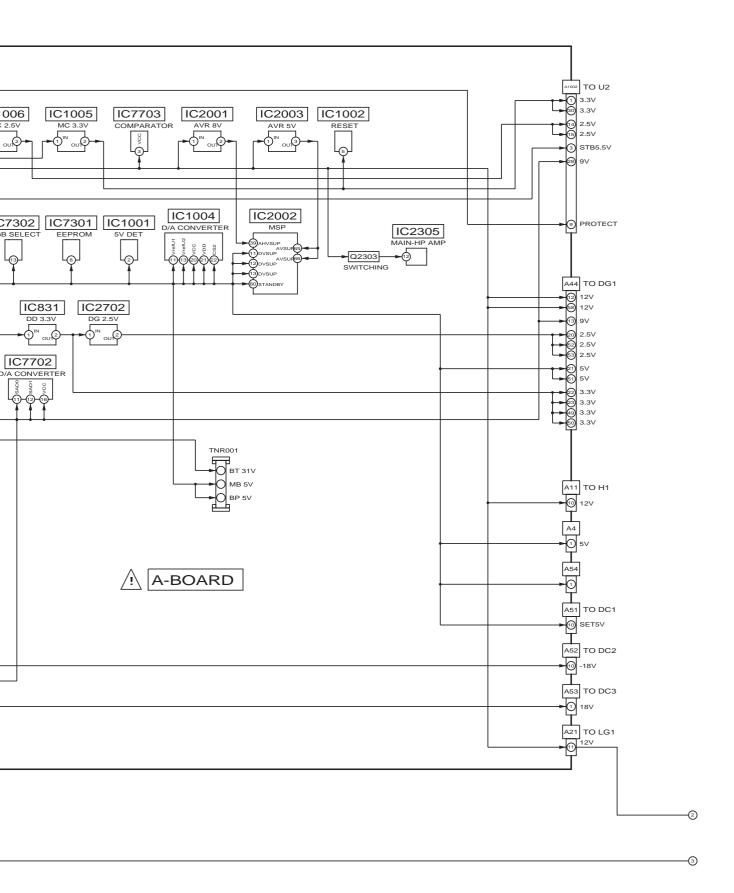


TX-47P800HQ/HZ Power Block Diagram



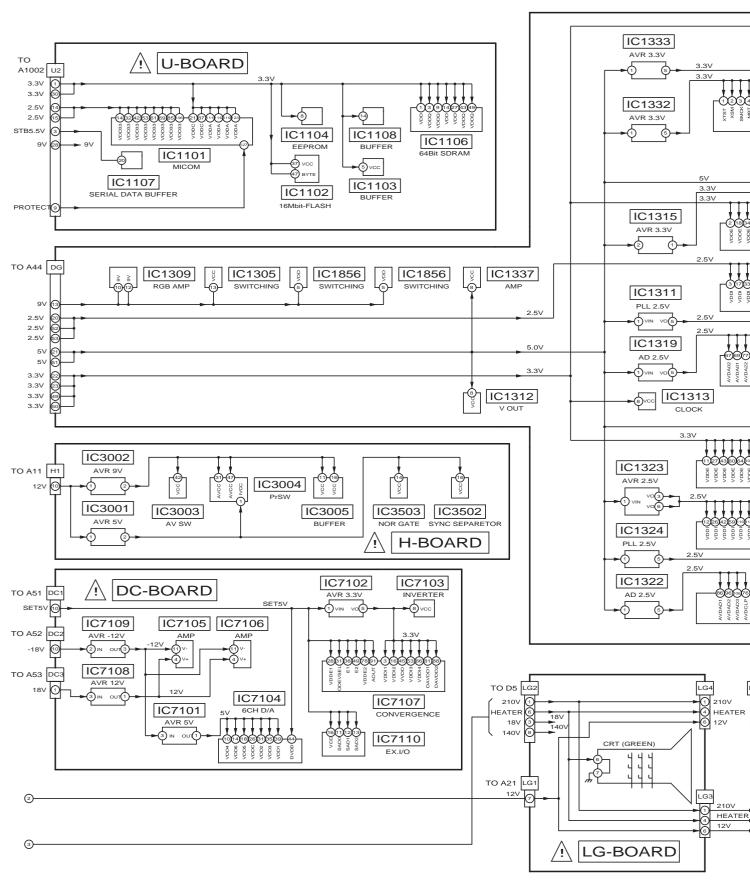




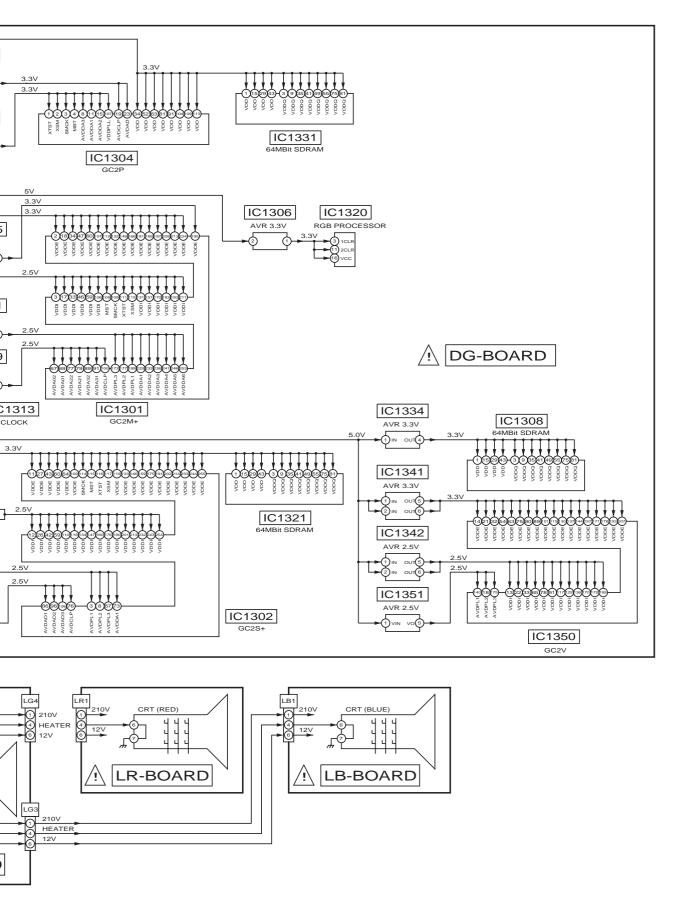


TX-47P800HQ/HZ Power Block Diagram

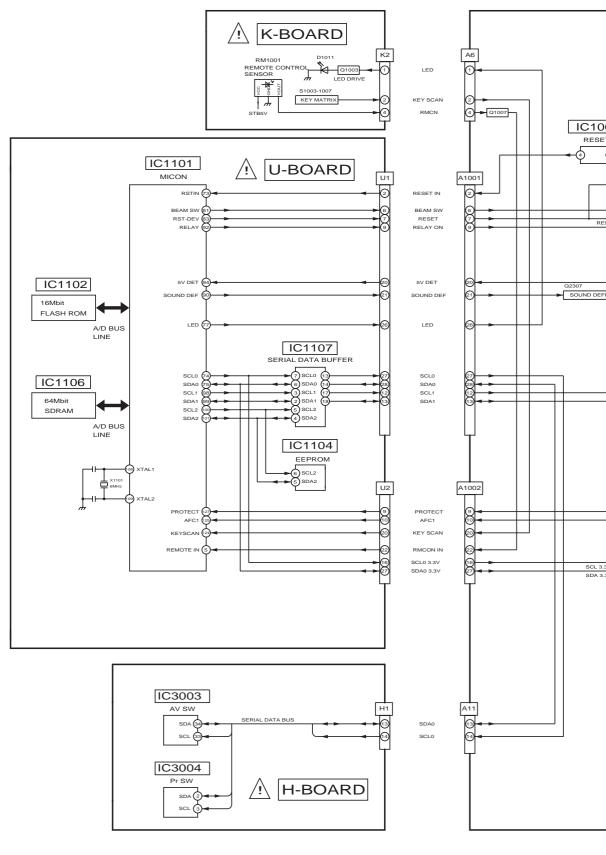






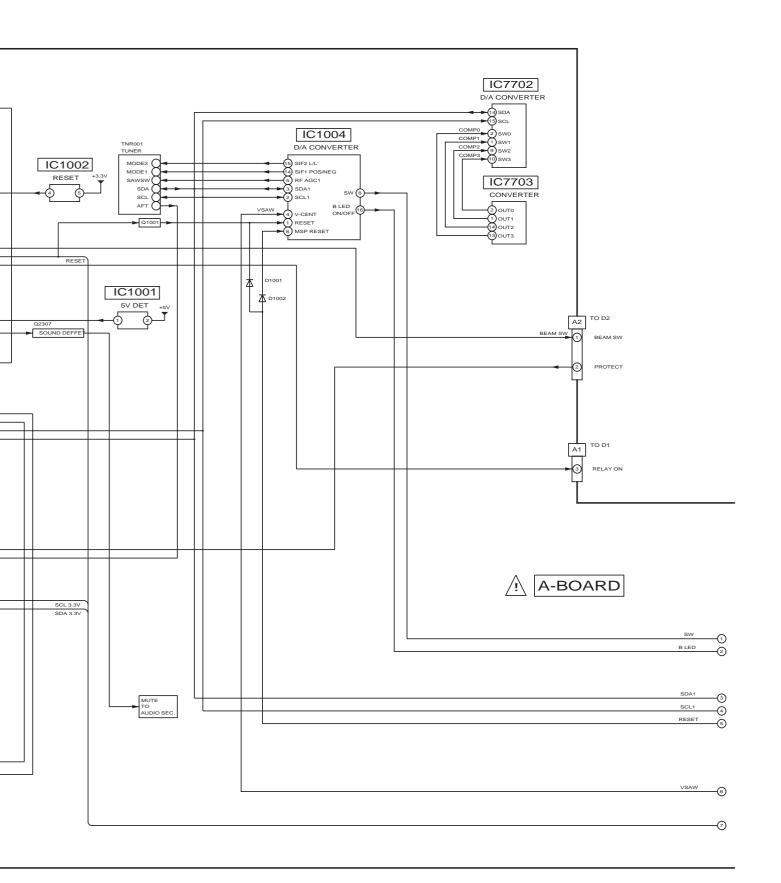


### 13.4. Control Block Diagram

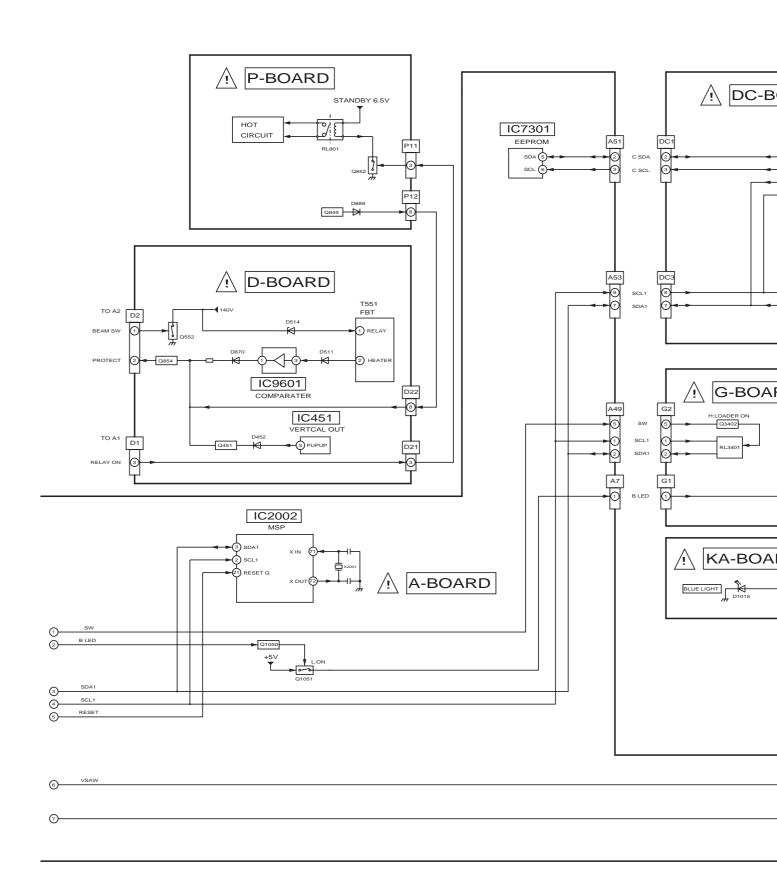


TX-47P800HQ/HZ Control Block Diagram



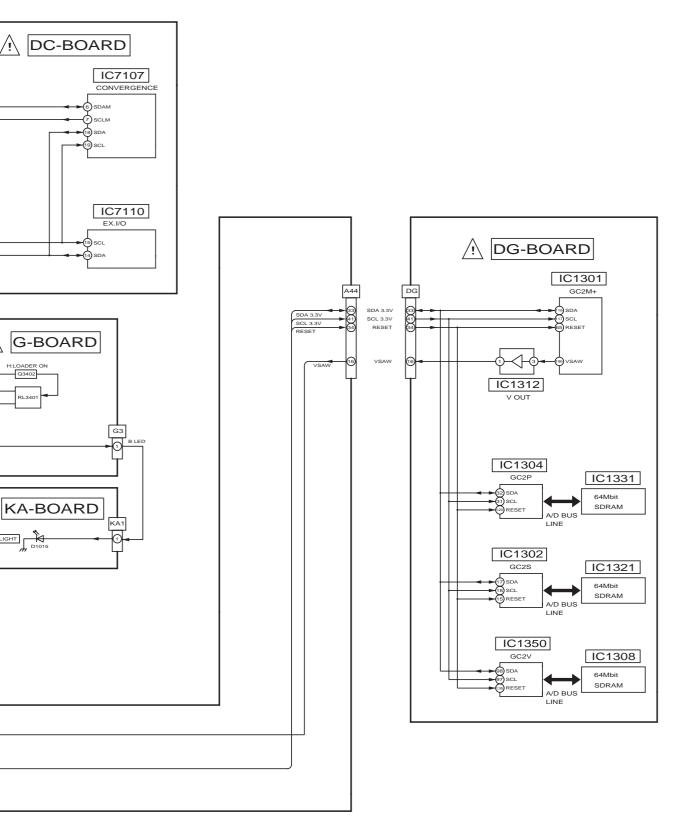






TX-47P800HQ/HZ Control Block Diagram





TX-47P800HQ/HZ Control Block Diagram

# 14 Schematic Diagram

## 14.1. Schematic Diagram Notes

	Important Safety Notice  Components identified by △ mark have special characteristics important for safe When replacing any of these components, use only manufacture's specified part				
Note	es:				
1.		r			
	All resistors are cabon 1/4W resistor, unless marked as follows: Unit of resistance is OHM [ $\Omega$ ] (K=1,000, M=1,000,000).				
	$\bigcirc$	: Nonflammable	× × × × × × × × × × × × × × × × × × ×	: Metal Oxide	
	$\wedge$	: Solid	0	: Metal Film	
		: Wire Wound	$\otimes$	: Fuse:	
2.	Capacit		V		
	All capacitors are ceramic 50V capacitor, unless marked as follows:				
	Unit of capacitance is $\mu F$ , unless otherwise noted.				
	$\otimes$	: Temperature Compensation	<del>-</del> +11	: Electrolytic	
	M	: Polyester	NP H	: Bipolar	
	m	: Metalized Polyester	T	: Dipped Tantalum	
	$\boxtimes$	: Polypropylene	(Z)	: Z-Type	
3.	Coil	2	O .		
	Unit of inductance is $\mu F$ , unless otherwise noted.				
4.	Test Point				
	Q	: Test Point position			
5.	Earth Sy	rmbol			
	#	: Chassis Earth (Cold)	$\perp$	: Line Earth (Hot)	
6.	Voltage Measurement				
	Voltage is measured by a DC voltmeter.				
	Conditions of the measurement are the following:				
	Power Source AC 220V-240V, 50/60Hz				
		Receiving Signal			
	All customer's controls				
7.	Number	Number in red circle indicates waveform nember.			
		veform pattern table.)			
8.	When ar	row mark ( 🗡 ) is found, connection i	s easily found	I from the direction of arrow	
_	1 12 .			P	
		s the major signal flow. : Video		udio ⇒	
10	. I nis sch	ematic diagram is the latest at the tir	ne of printing a	and subject to change without	

TX-47P800HQ/HZ Schematic Diagram Note

notice.

#### Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.

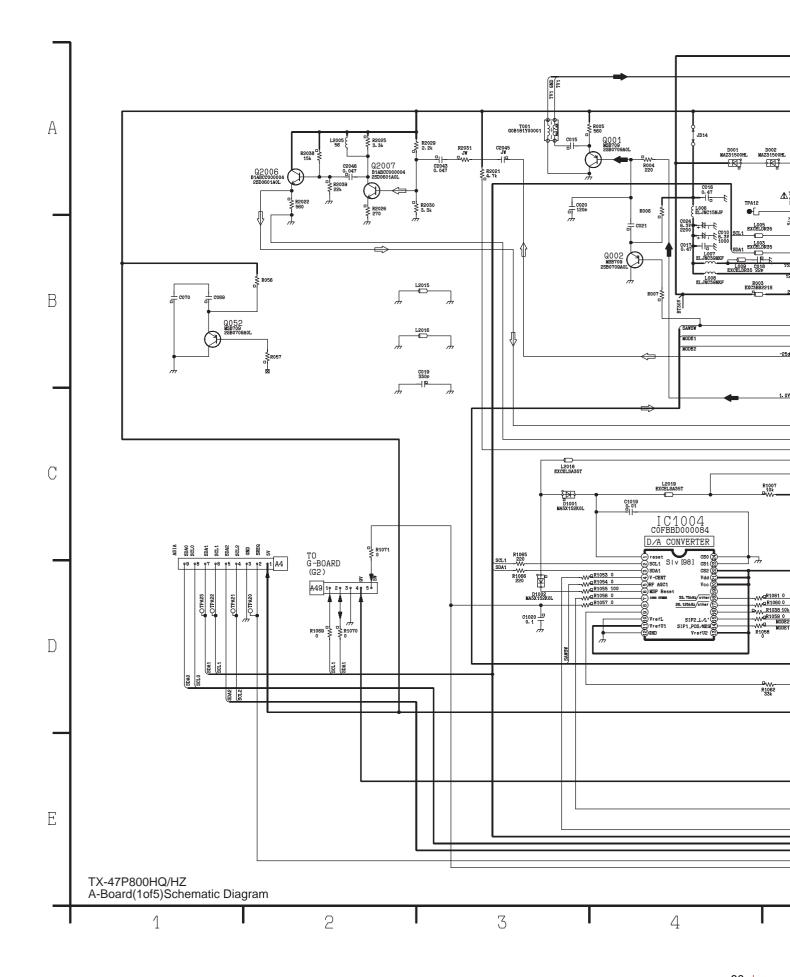
All circuits, except the Power Circuit, are cold.

Precautions

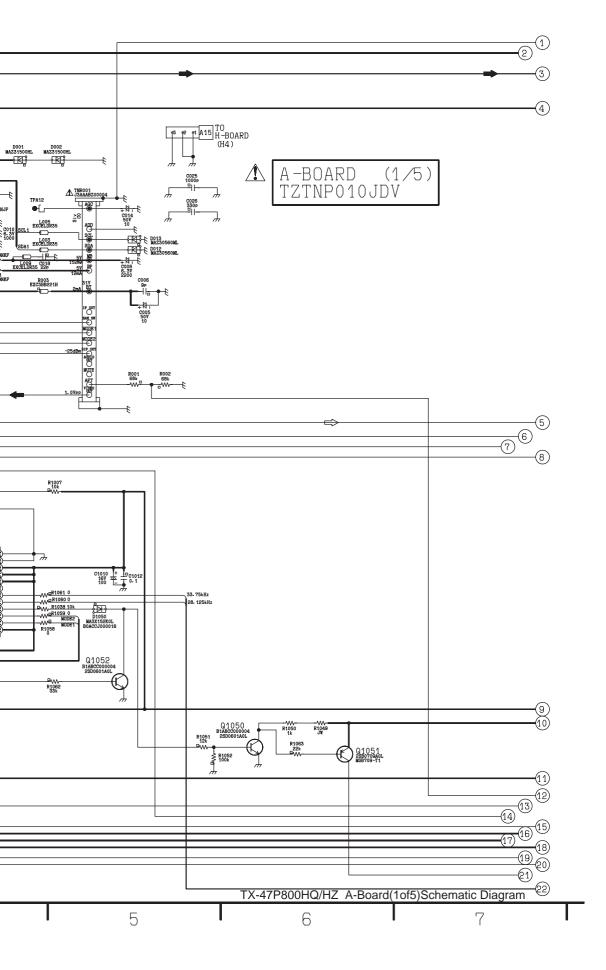
- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.
- 2. Following diodes are interchangeable.

MA150- MA162 (Replacement part)

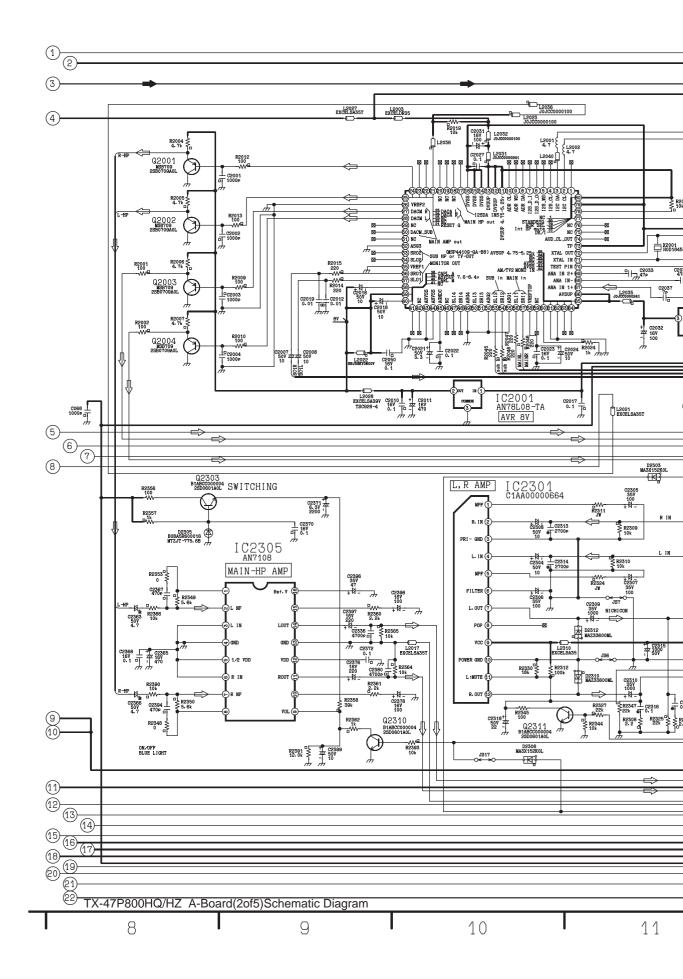
## 14.2. A-Board (1 of 5) Schematic Diagram



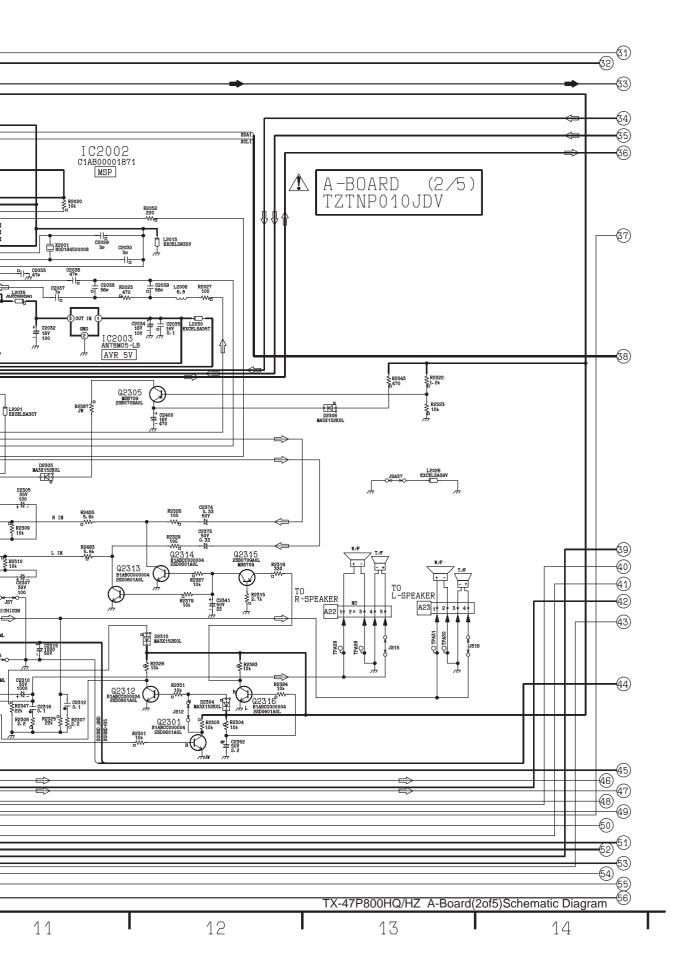




#### 14.3. A-Board (2 of 5) Schematic Diagram

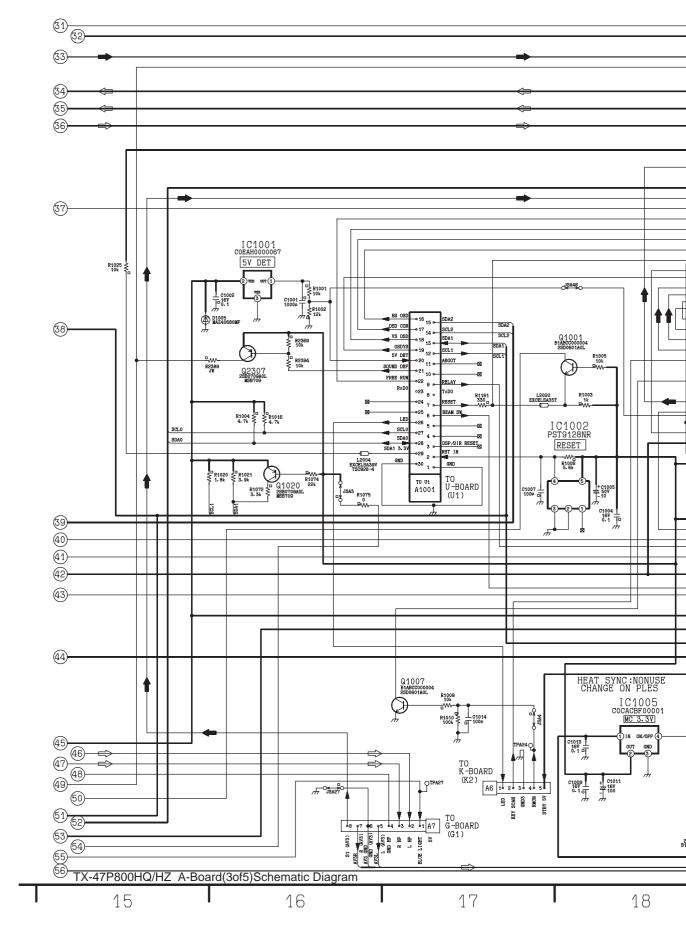




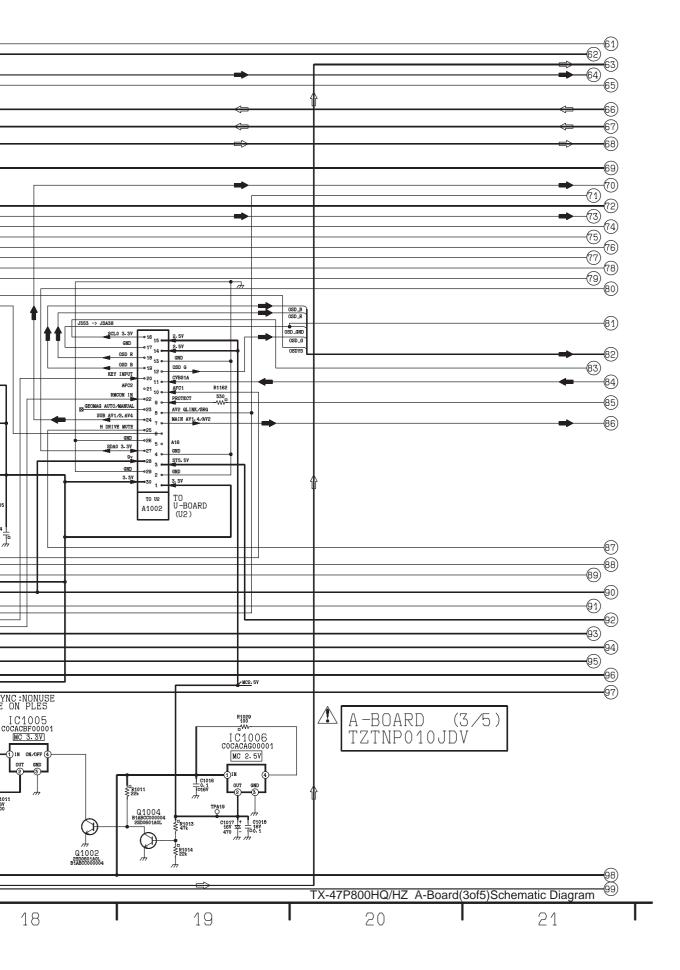


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### 14.4. A-Board (3 of 5) Schematic Diagram

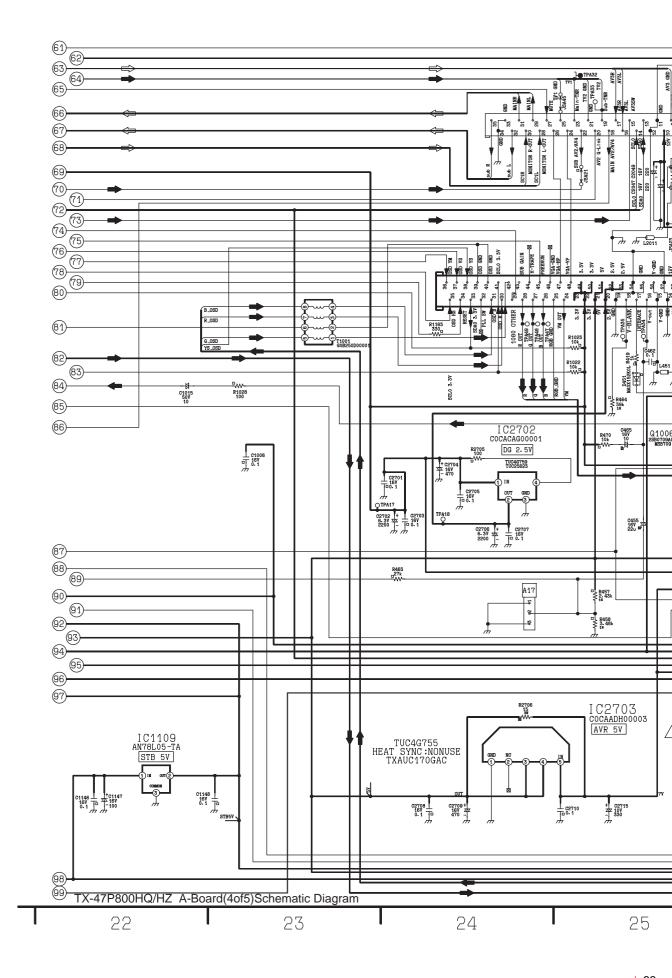




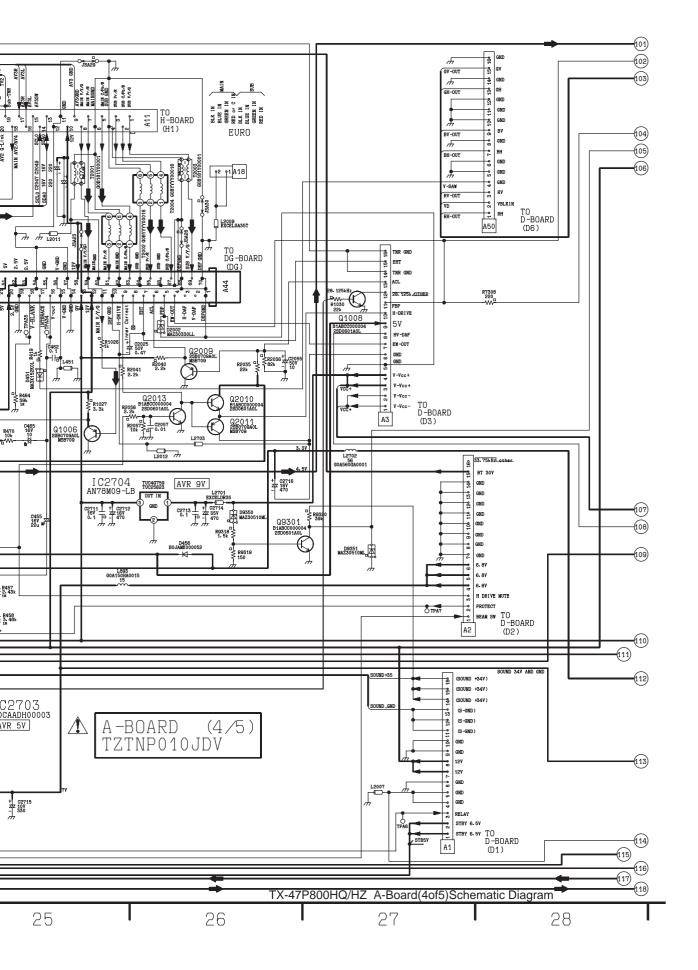


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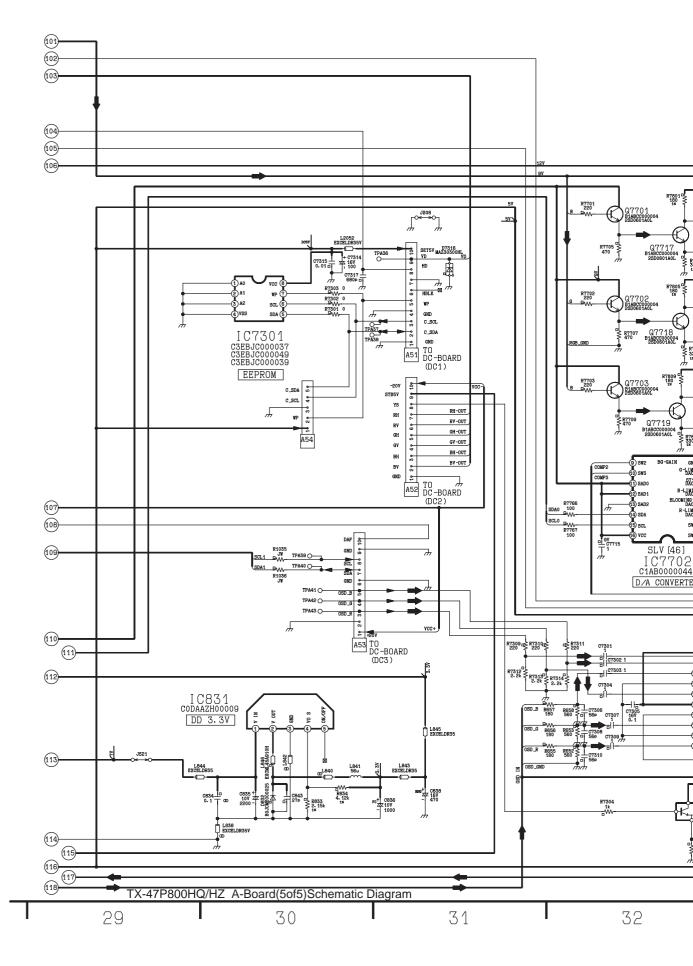
#### 14.5. A-Board (4 of 5) Schematic Diagram



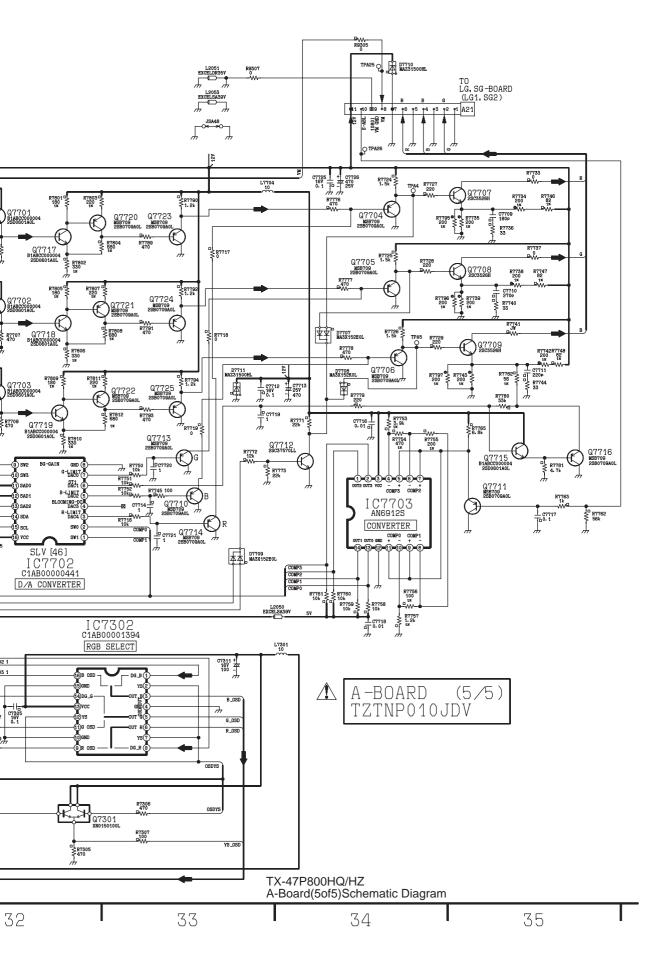




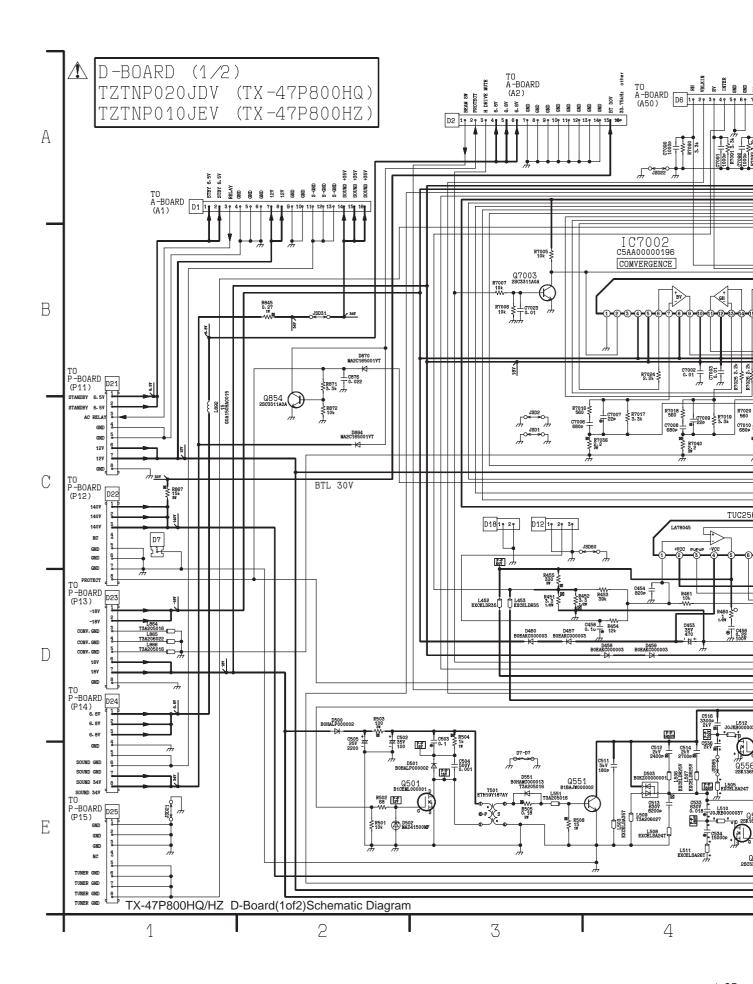
# 14.6. A-Board (5 of 5) Schematic Diagram



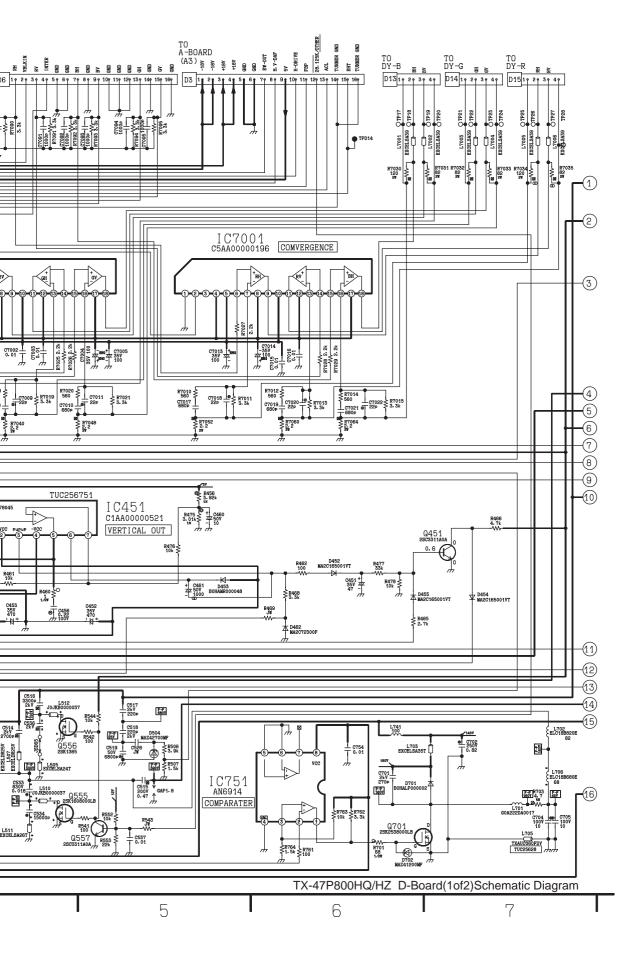




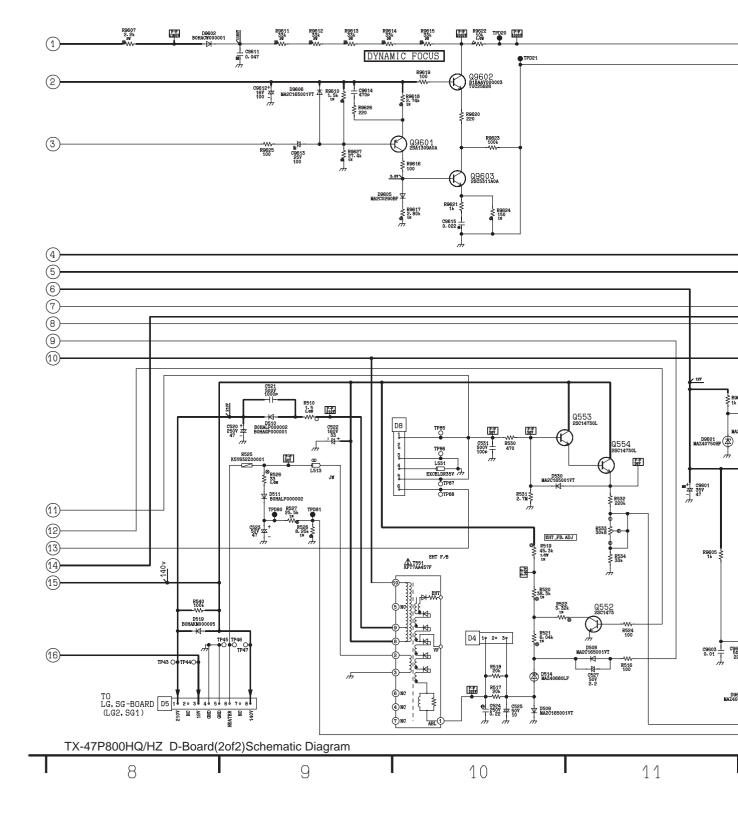
#### 14.7. D-Board (1 of 2) Schematic Diagram



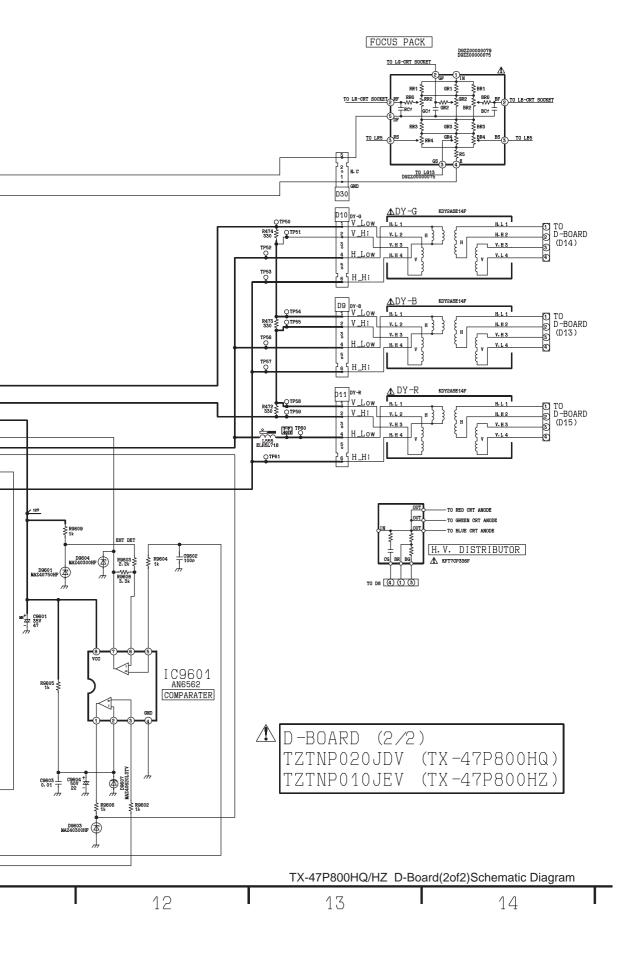




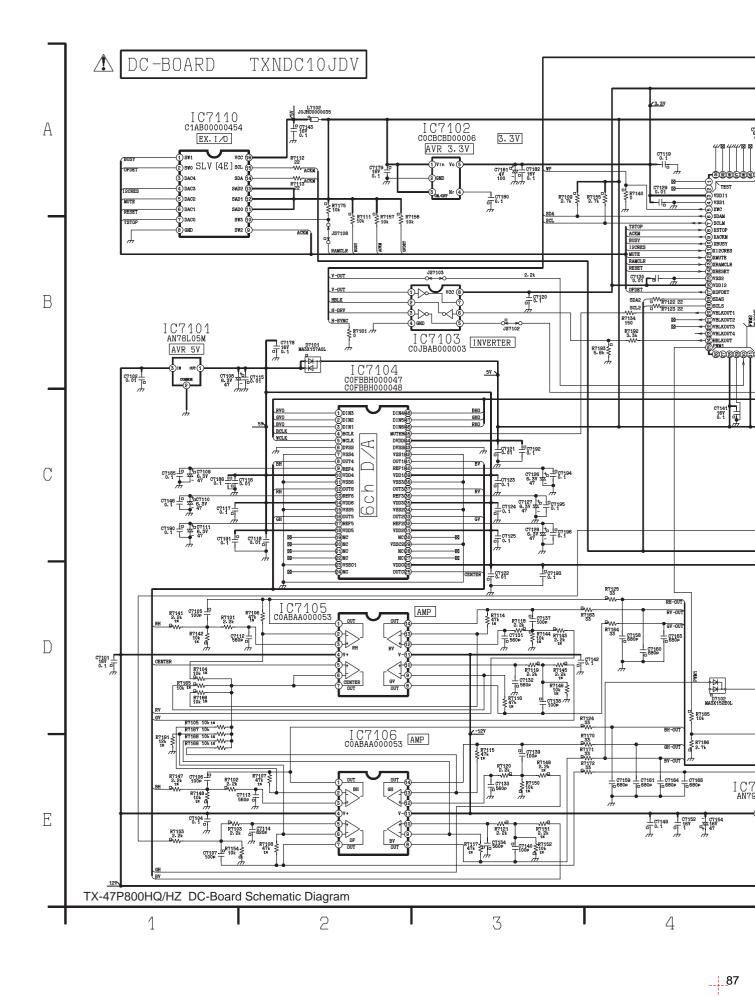
### 14.8. D-Board (2 of 2) Schematic Diagram



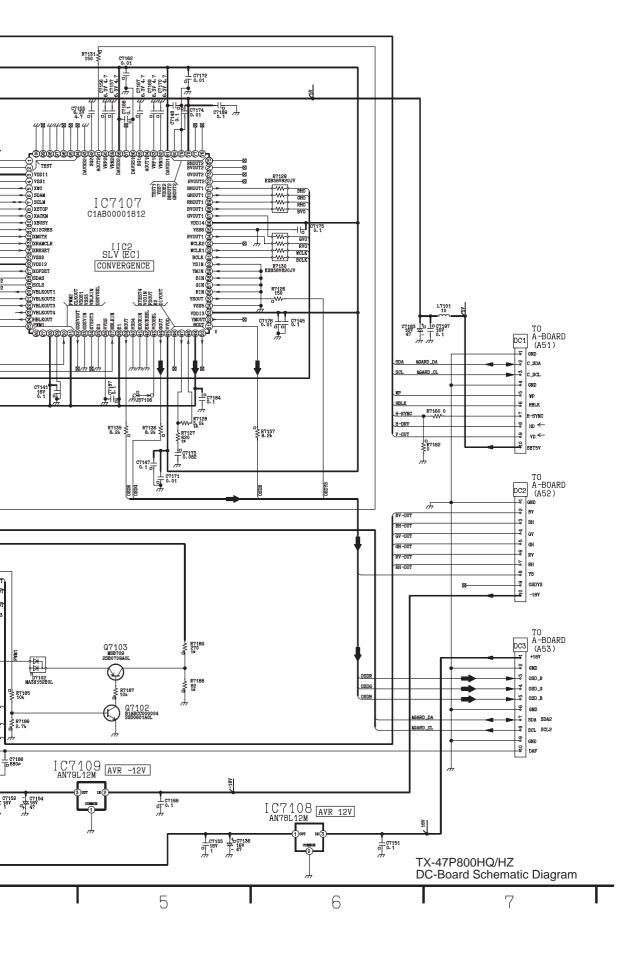




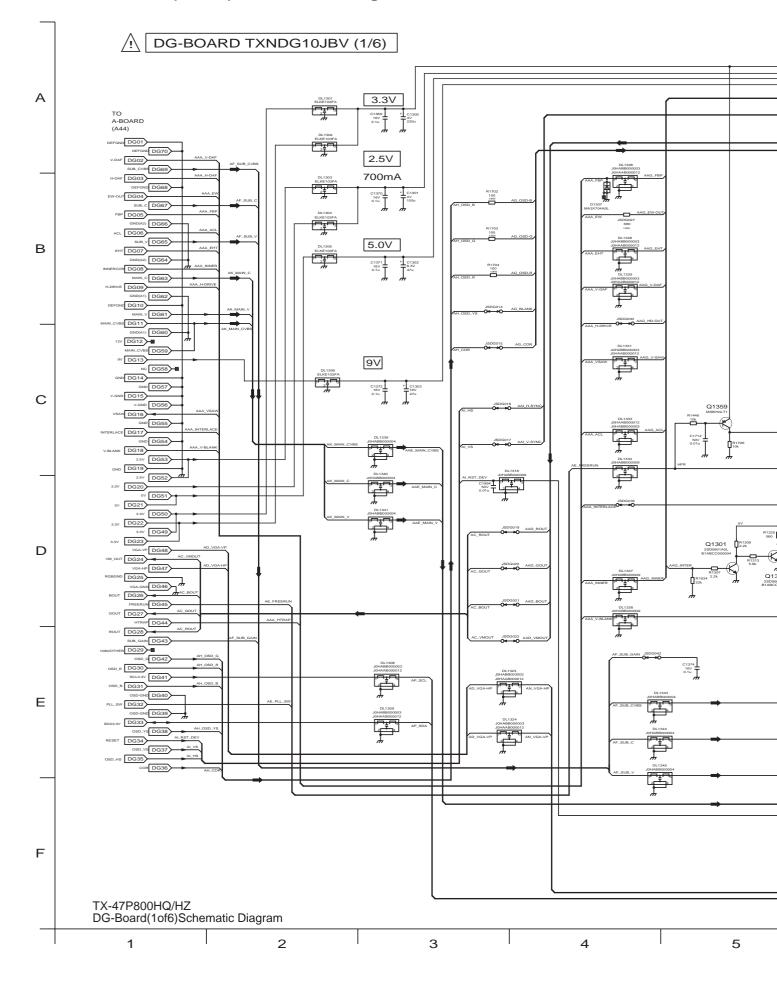
#### 14.9. DC-Board Schematic Diagram

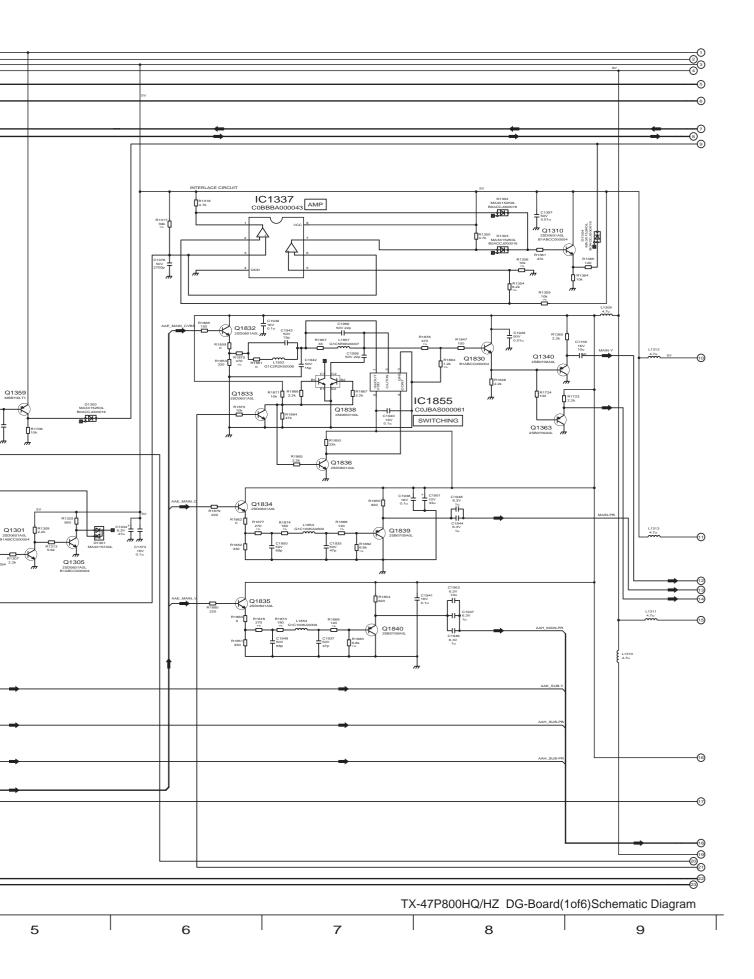




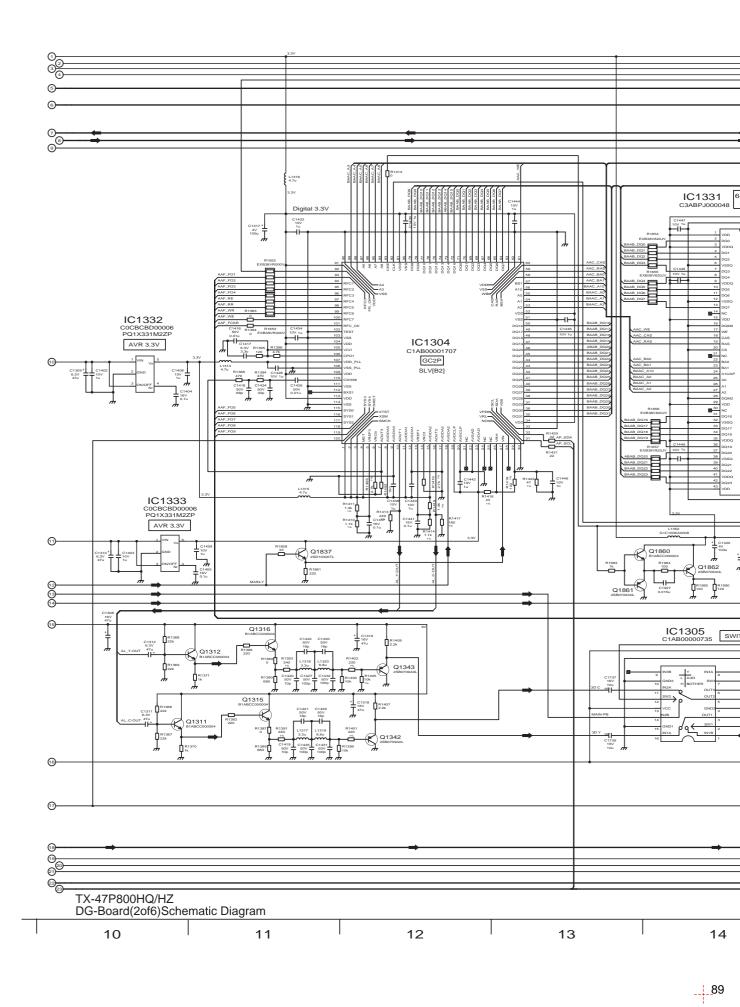


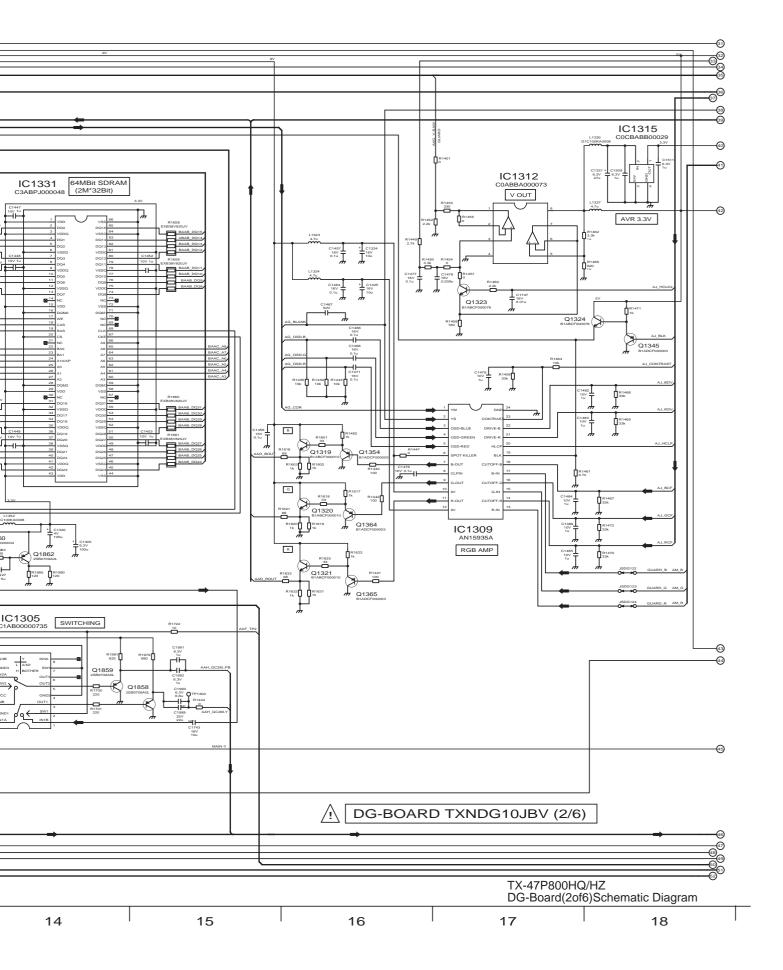
### 14.10. DG-Board (1 of 6) Schematic Diagram



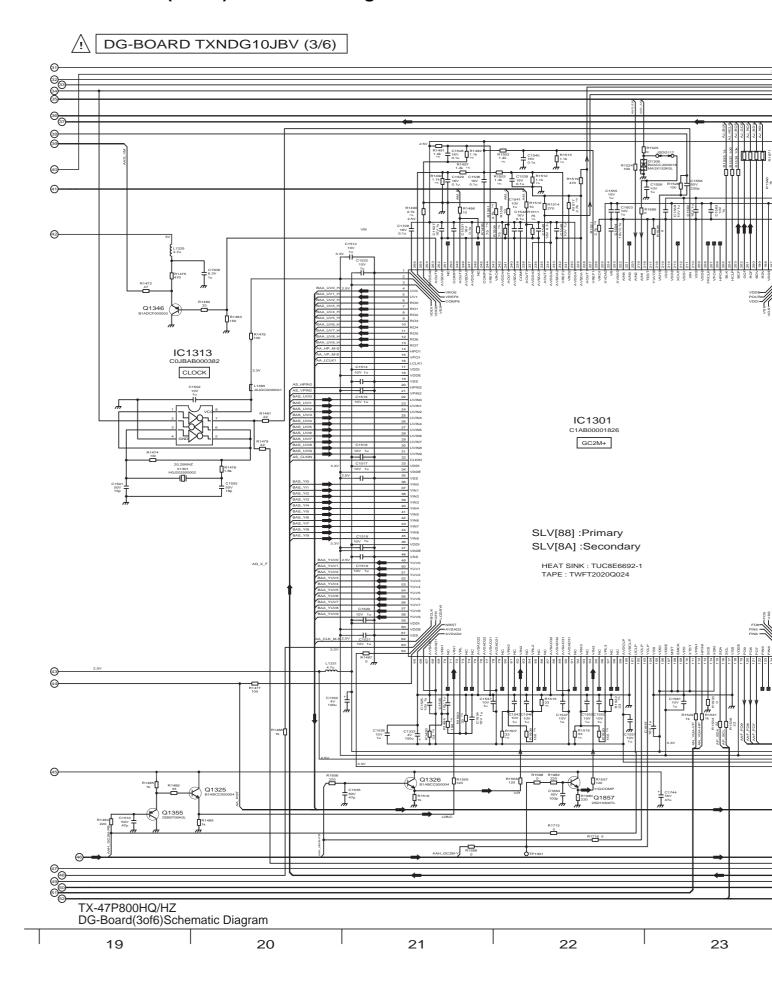


## 14.11. DG-Board (2 of 6) Schematic Diagram

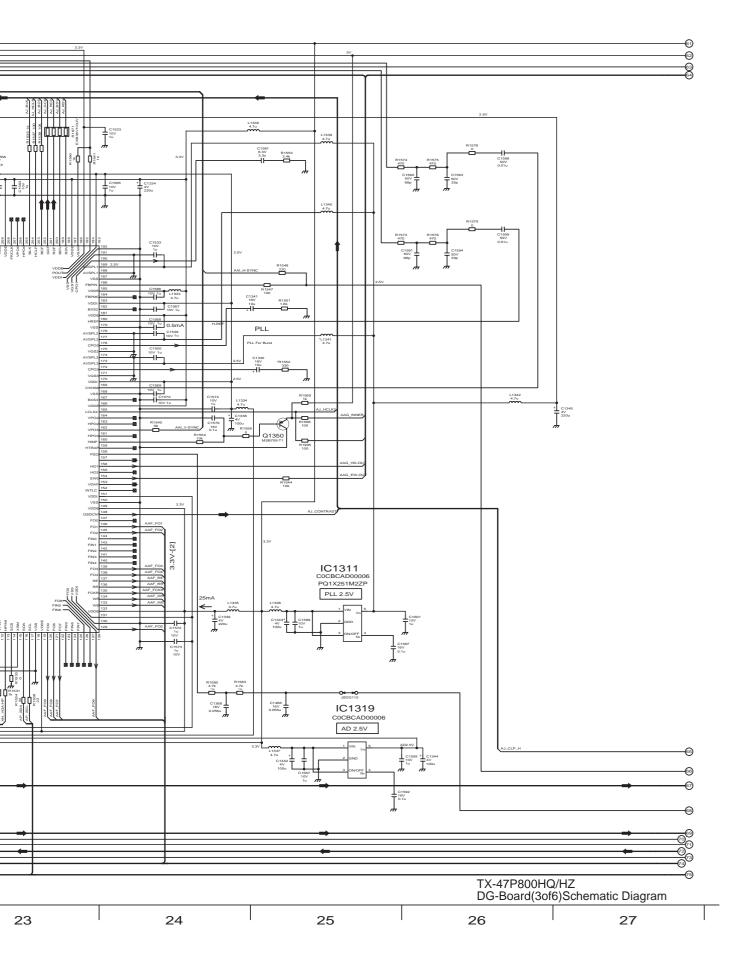




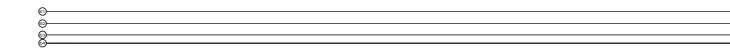
### 14.12. DG-Board (3 of 6) Schematic Diagram

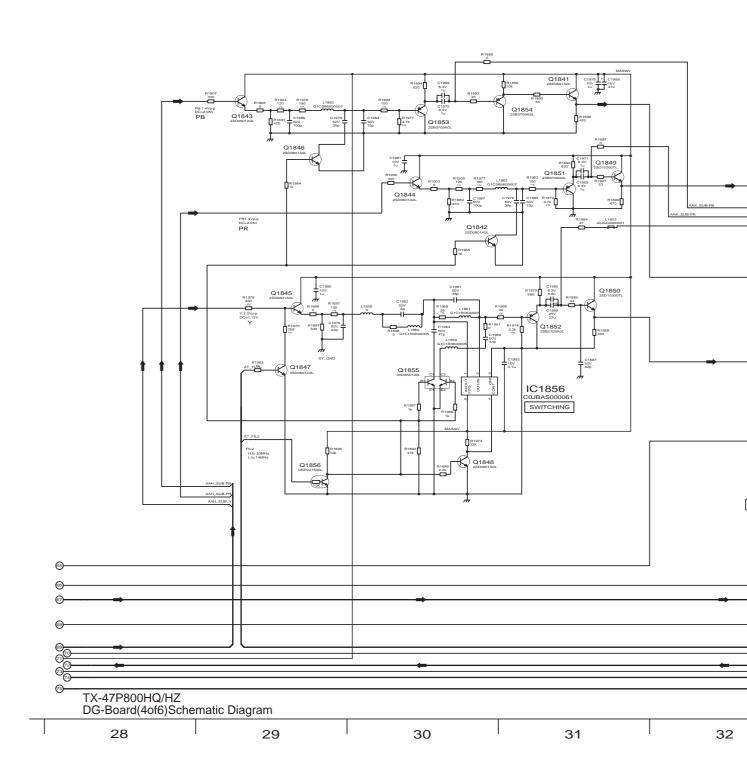


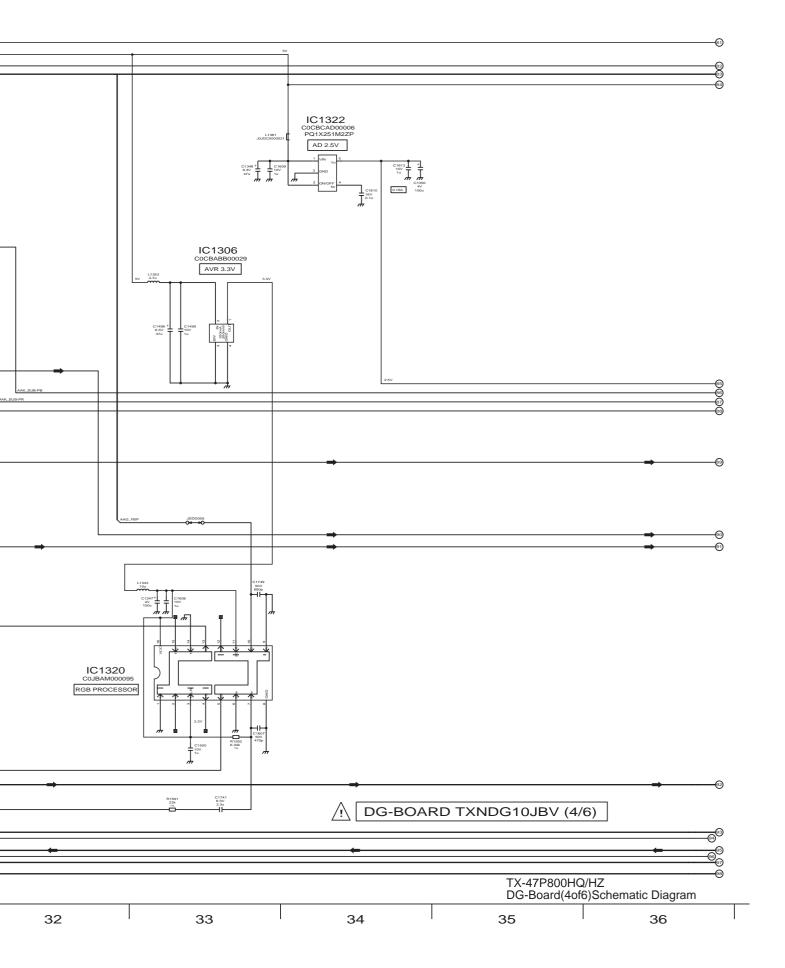




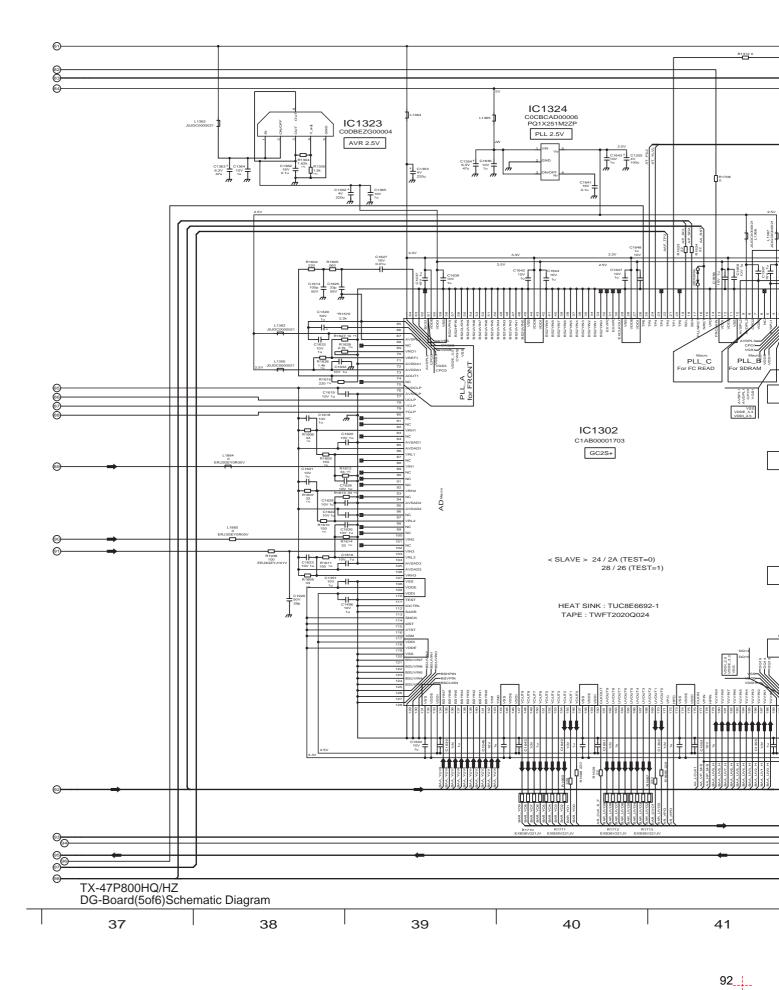
# 14.13. DG-Board (4 of 6) Schematic Diagram



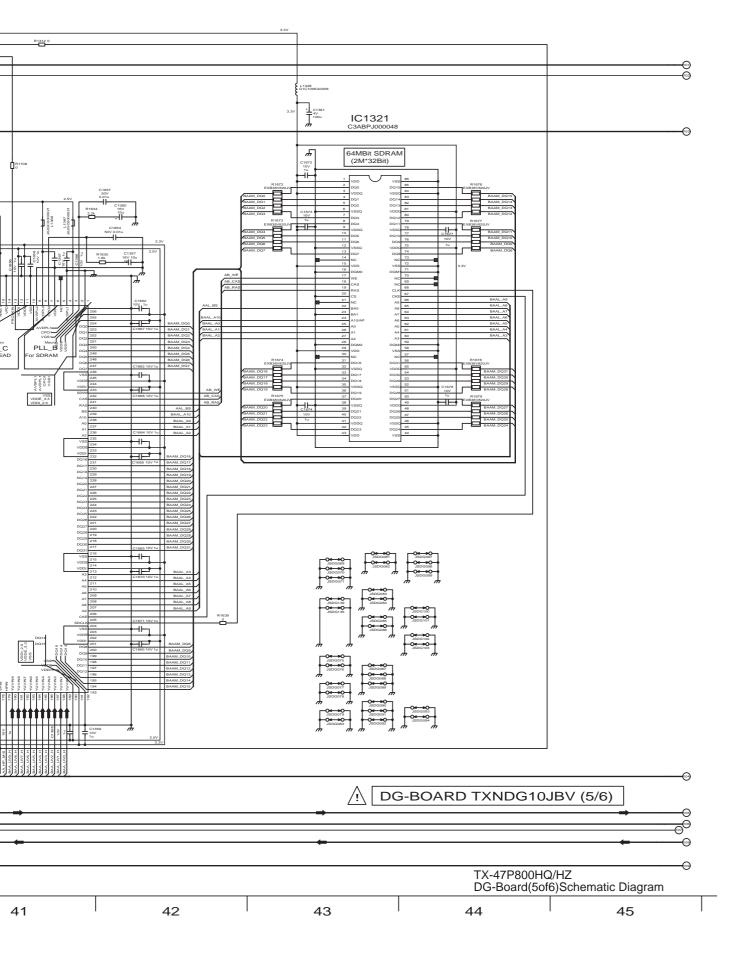




## 14.14. DG-Board (5 of 6) Schematic Diagram

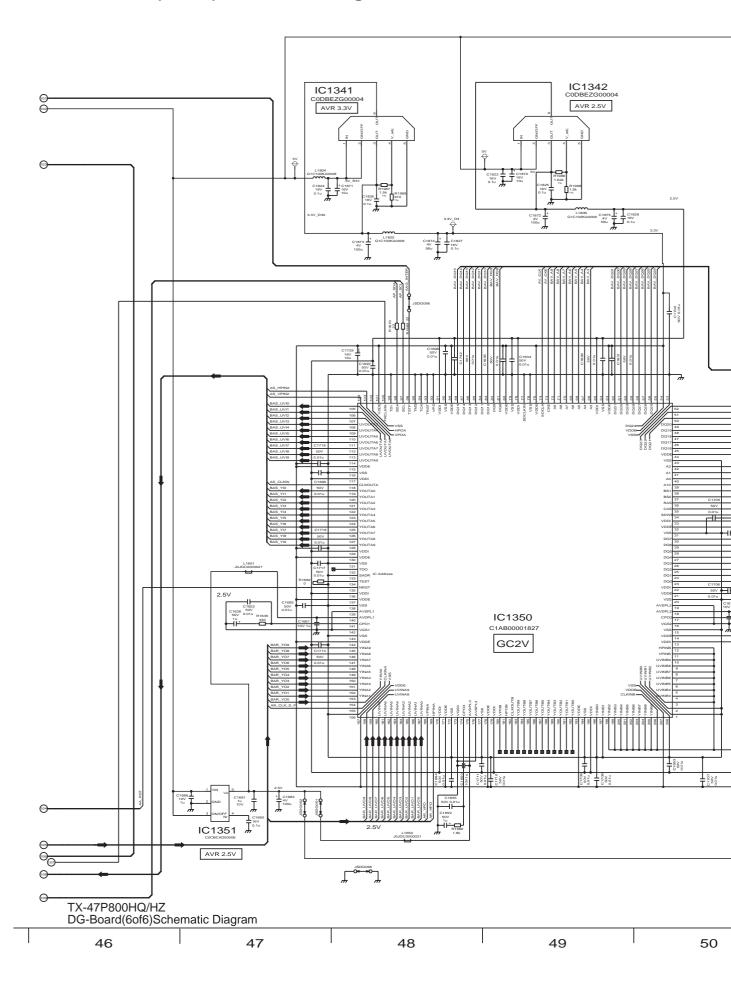




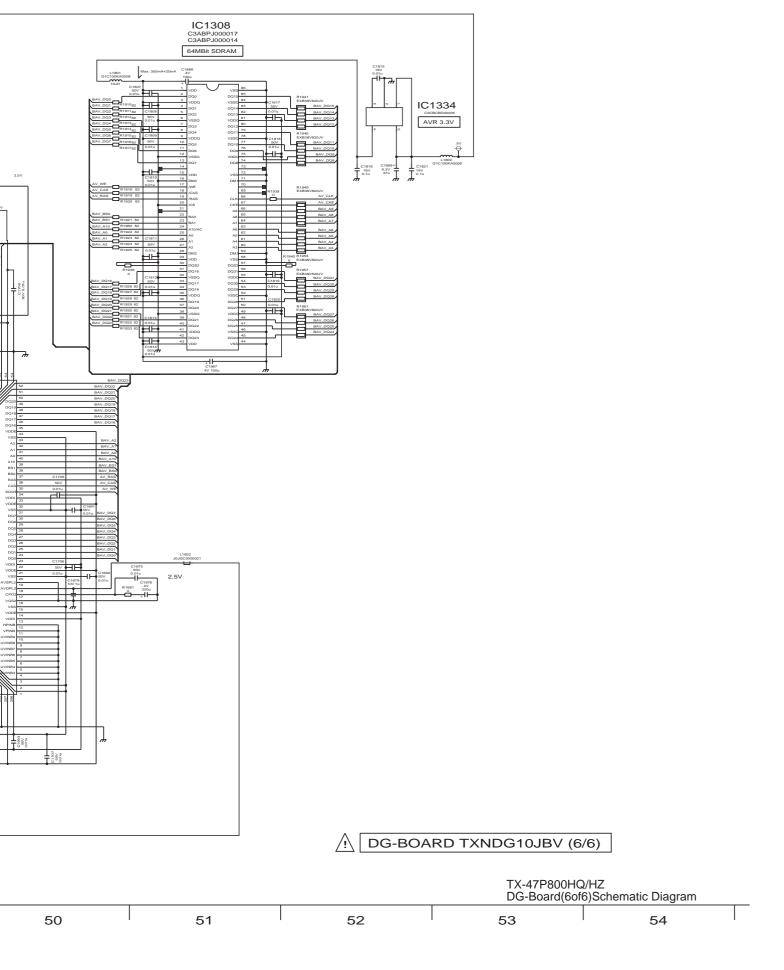


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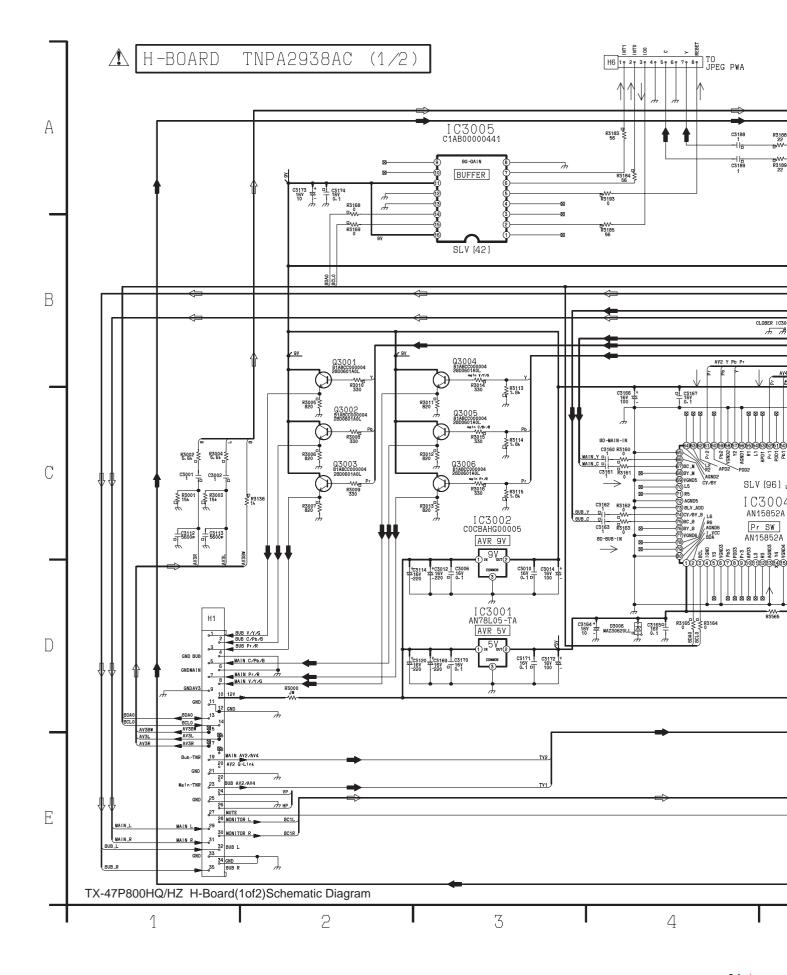
## 14.15. DG-Board (6 of 6) Schematic Diagram



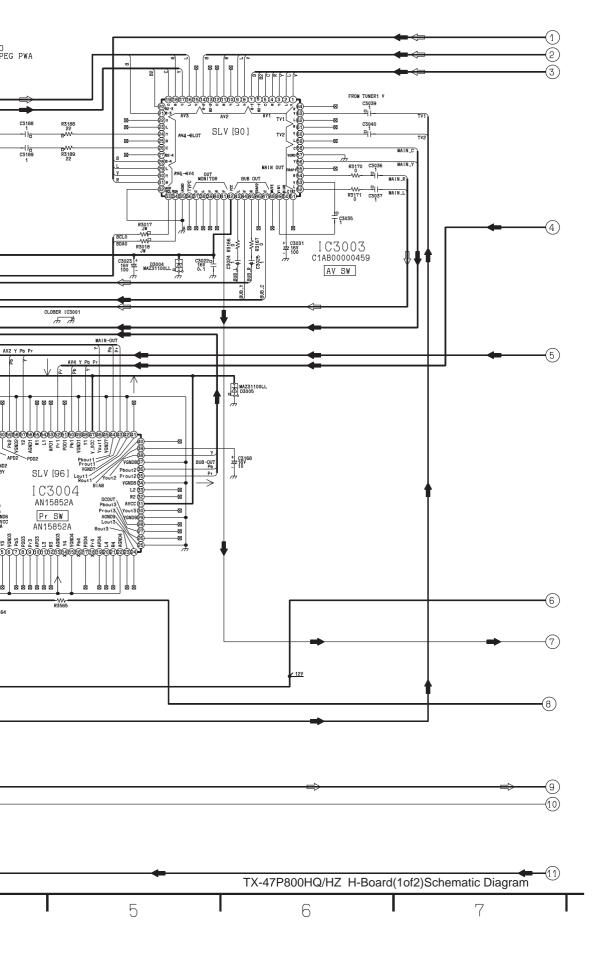




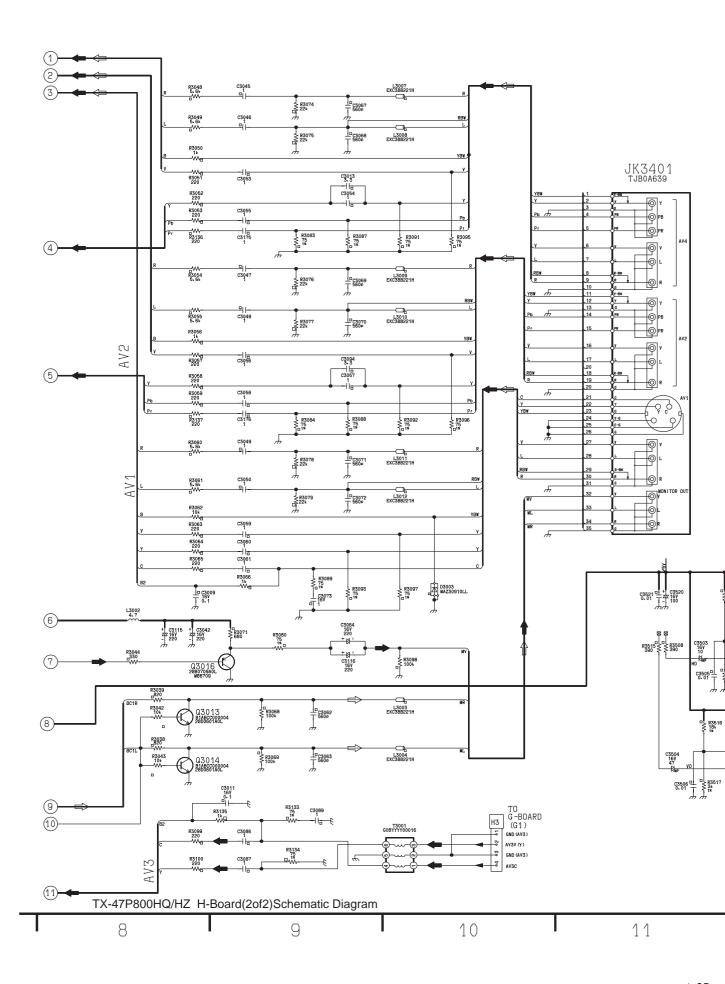
## 14.16. H-Board (1 of 2) Schematic Diagram



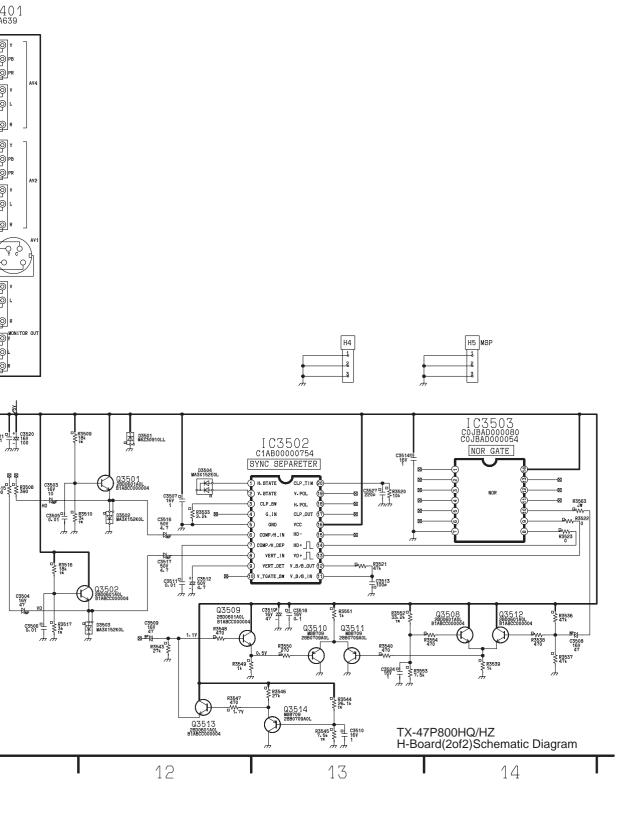




### 14.17. H-Board (2 of 2) Schematic Diagram

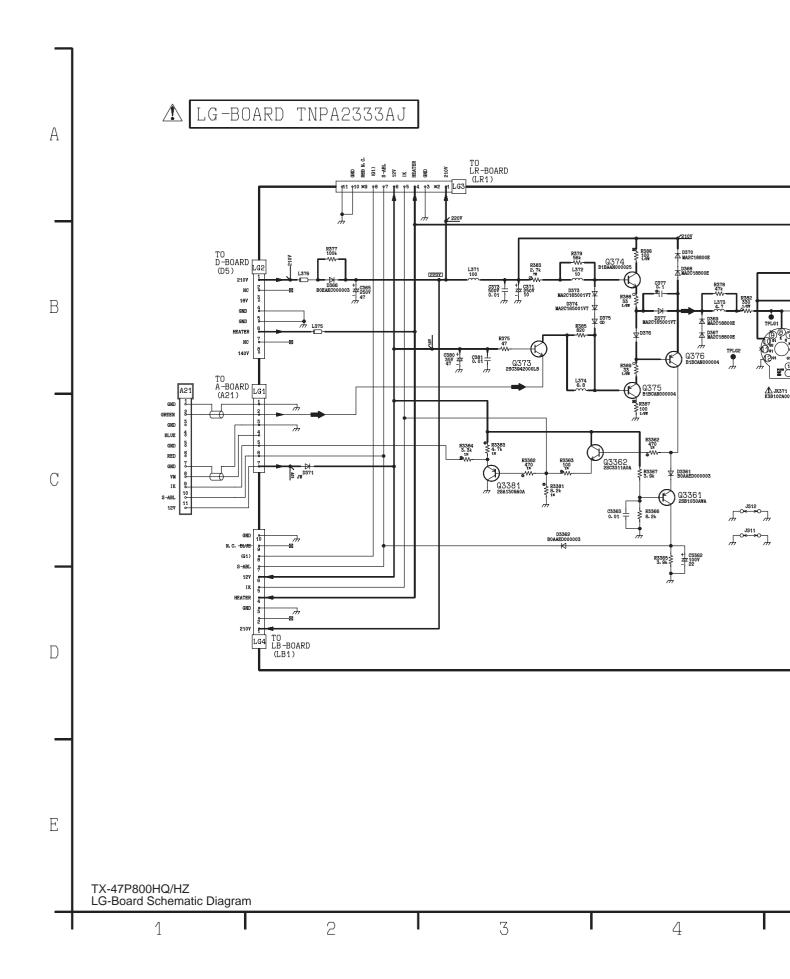


# ⚠ H-BOARD TNPA2938AC (2/2)

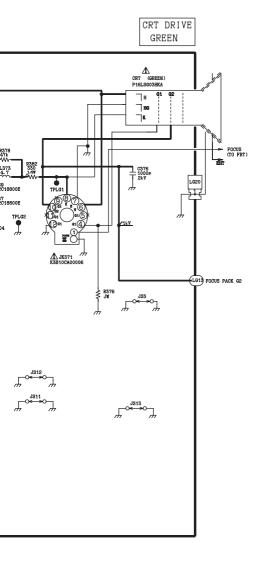


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# 14.18. LG-Board Schematic Diagram



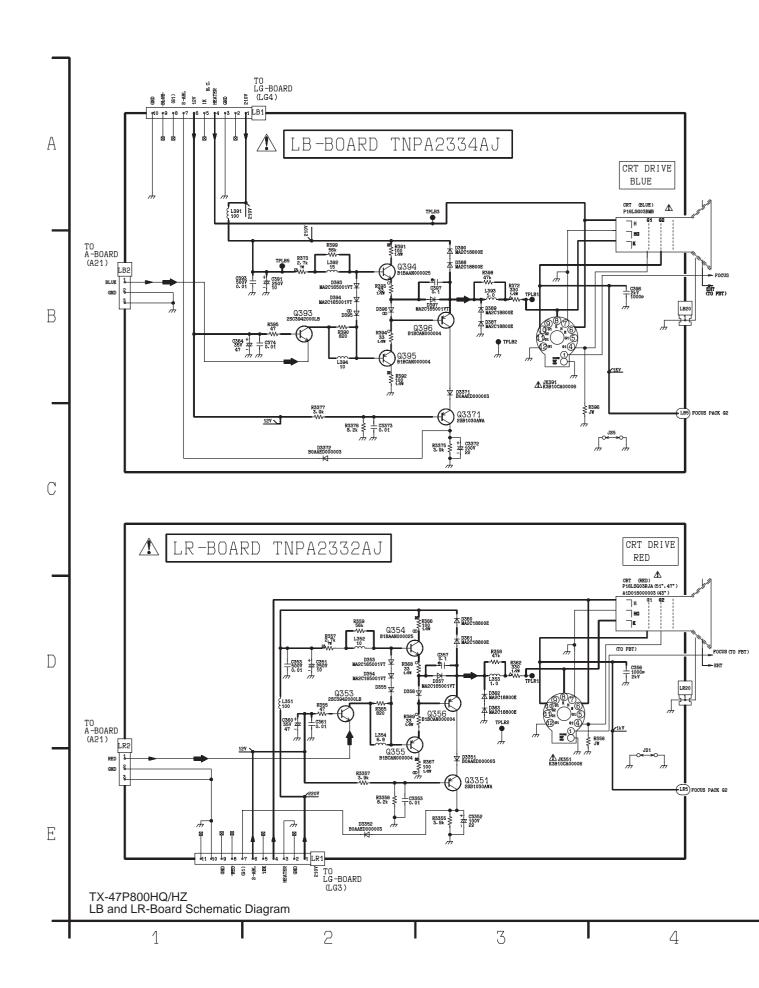






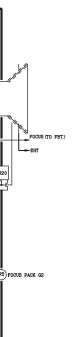
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## 14.19. LB and LR-Board Schematic Diagram





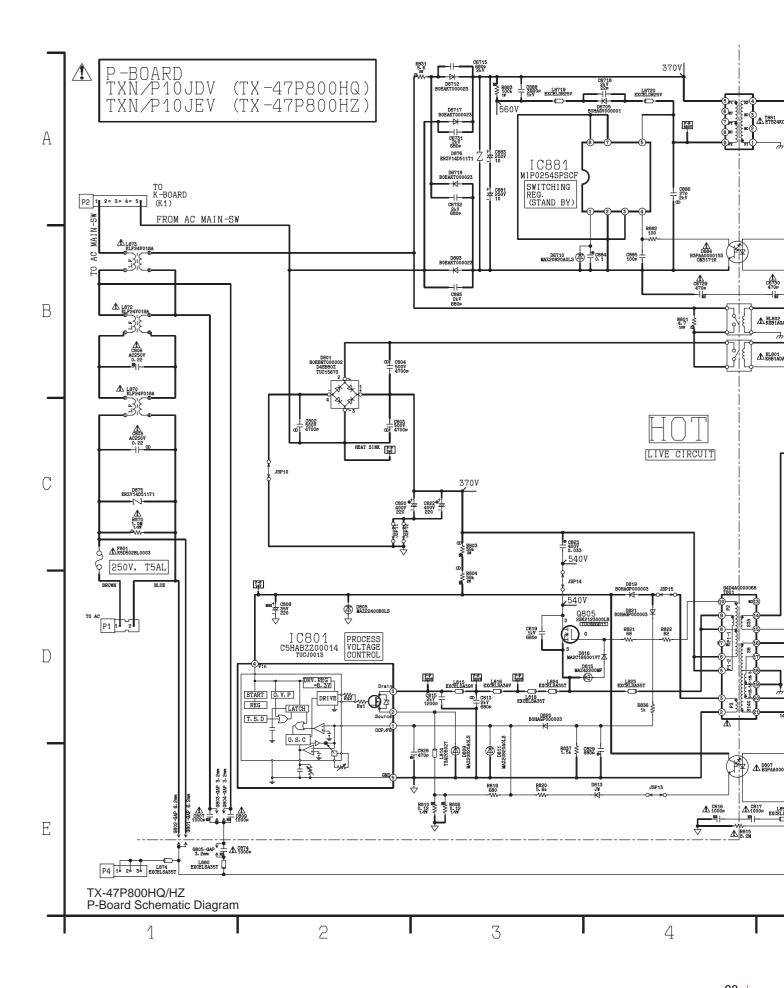




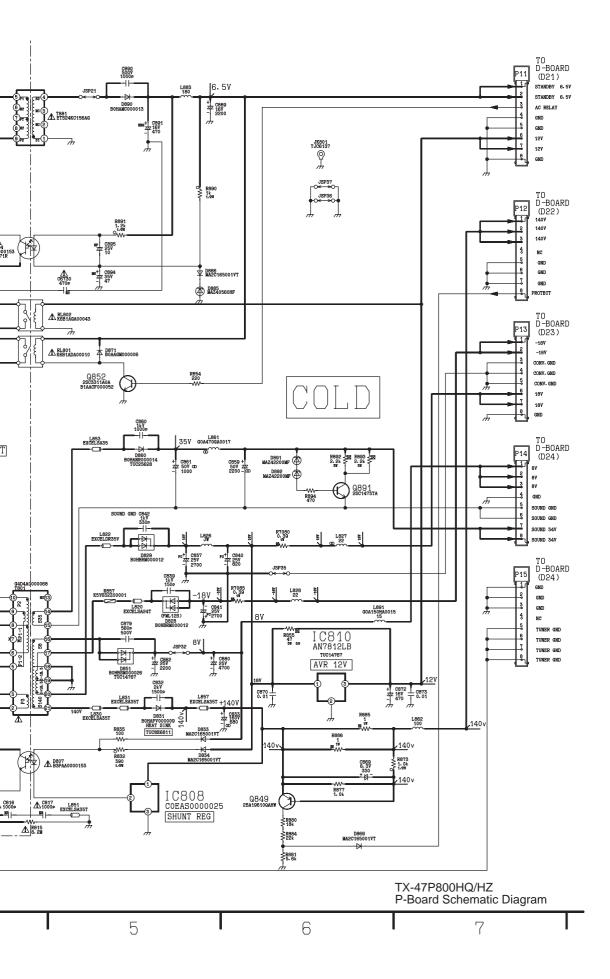
TX-47P800HQ/HZ LB and LR-Board Schematic Diagram

5 6 7

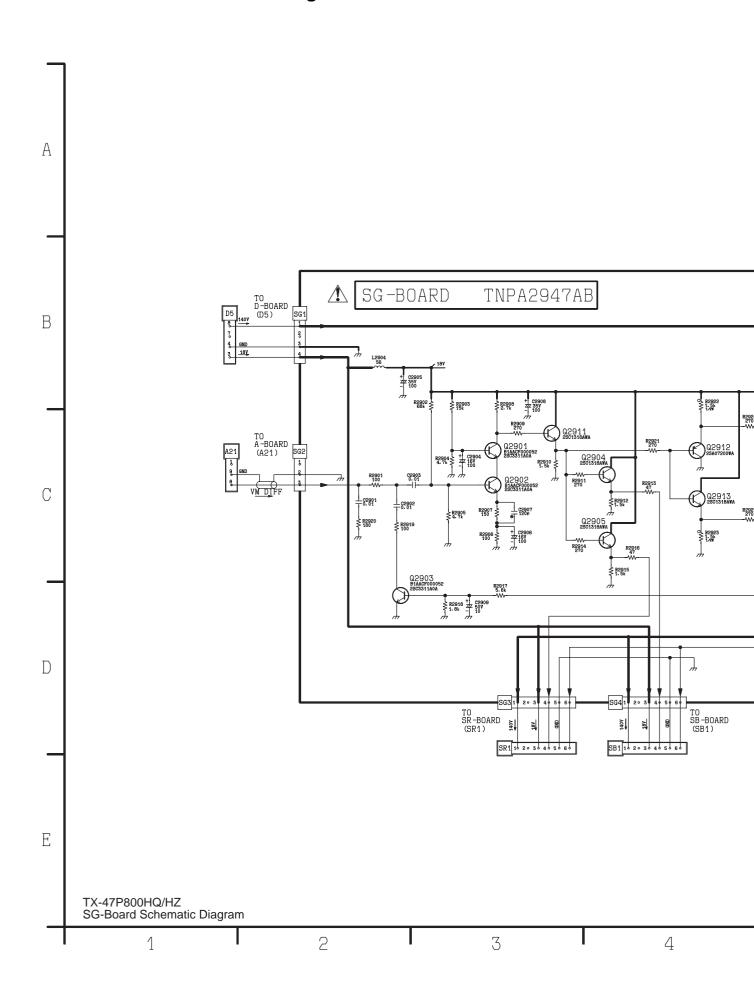
## 14.20. P-Board Schematic Diagram



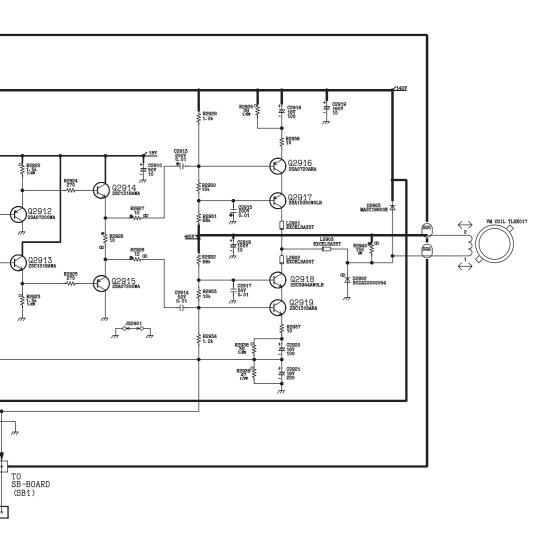




# 14.21. SG-Board Schematic Diagram



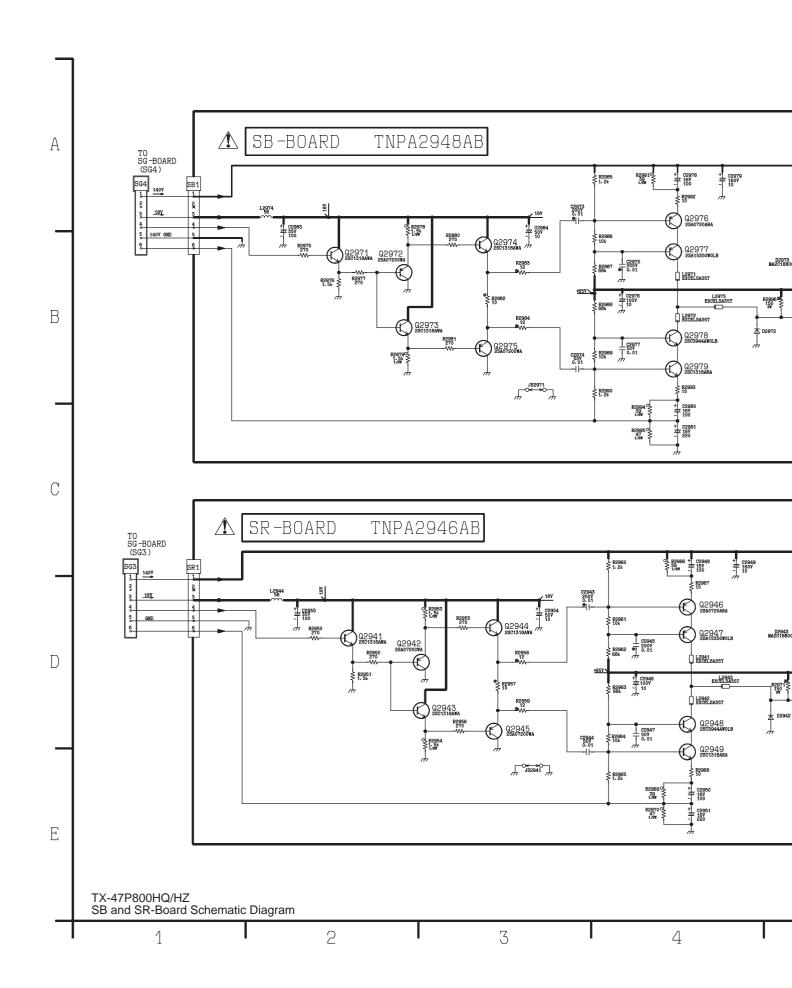




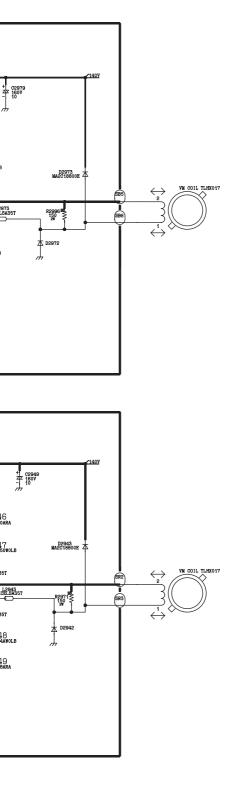


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## 14.22. SB and SR-Board Schematic Diagram

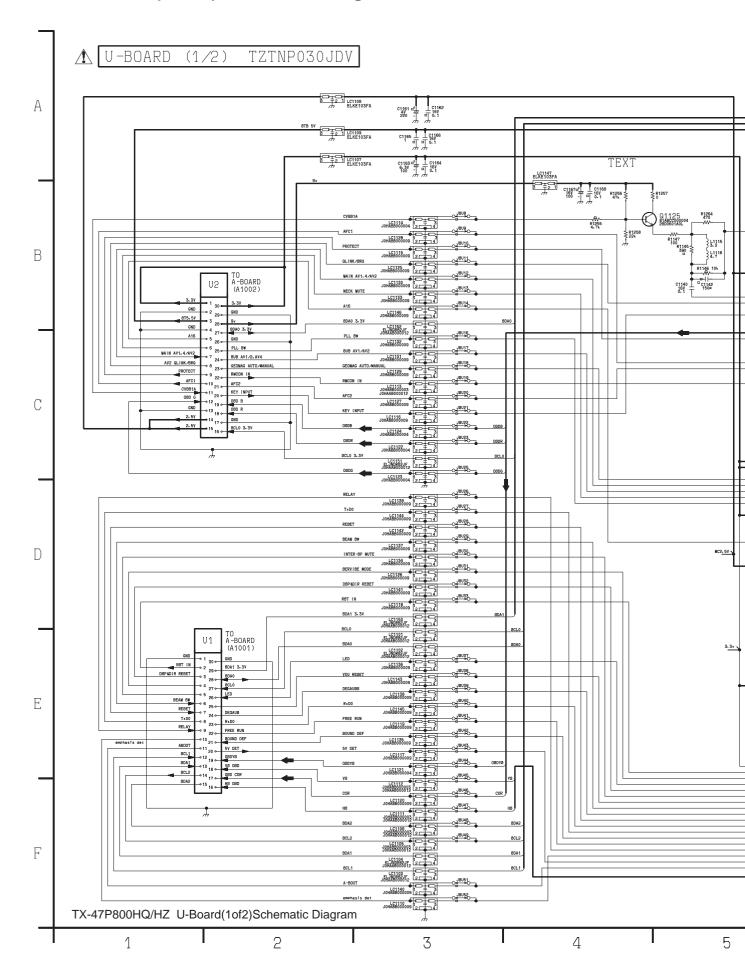




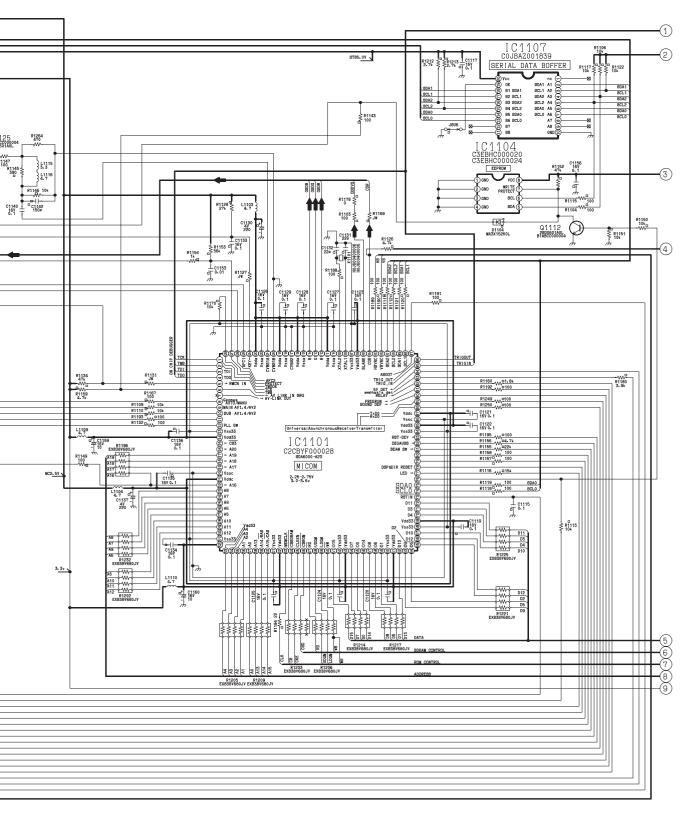


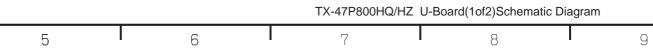


# 14.23. U-Board (1 of 2) Schematic Diagram

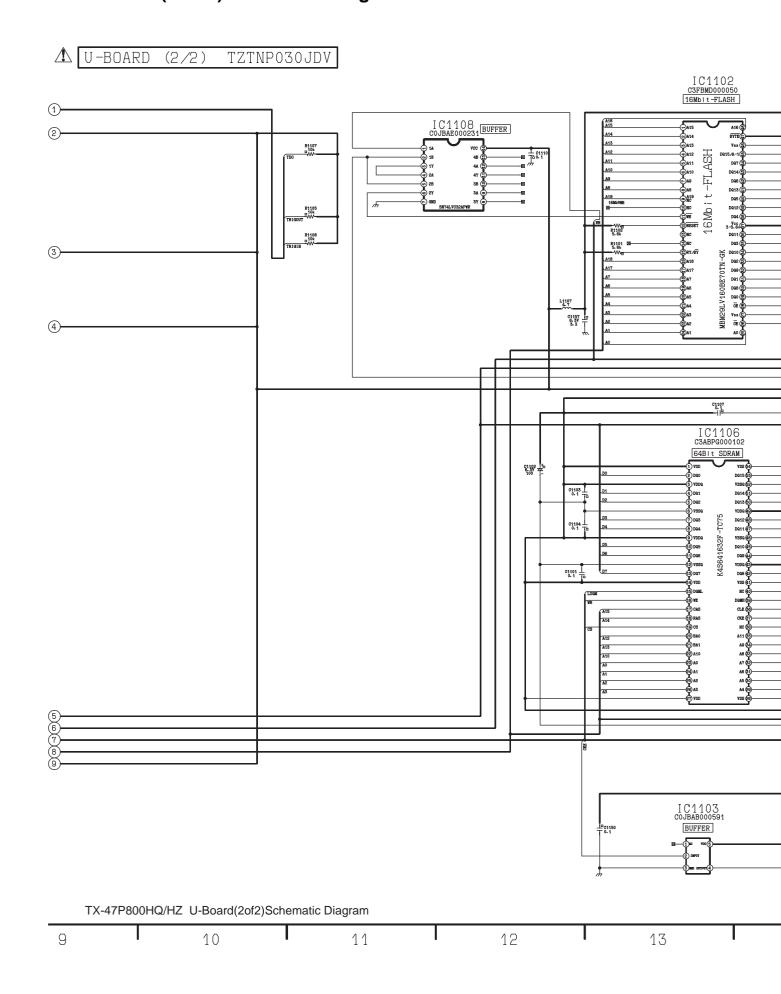




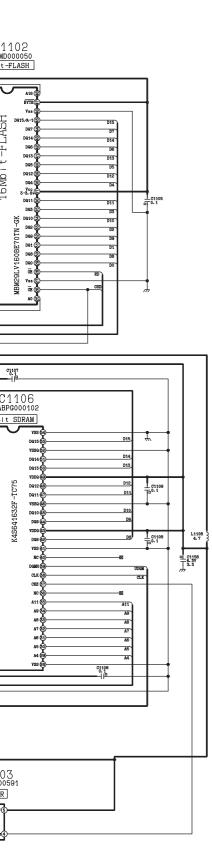


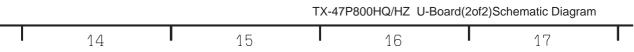


# 14.24. U-Board (2 of 2) Schematic Diagram

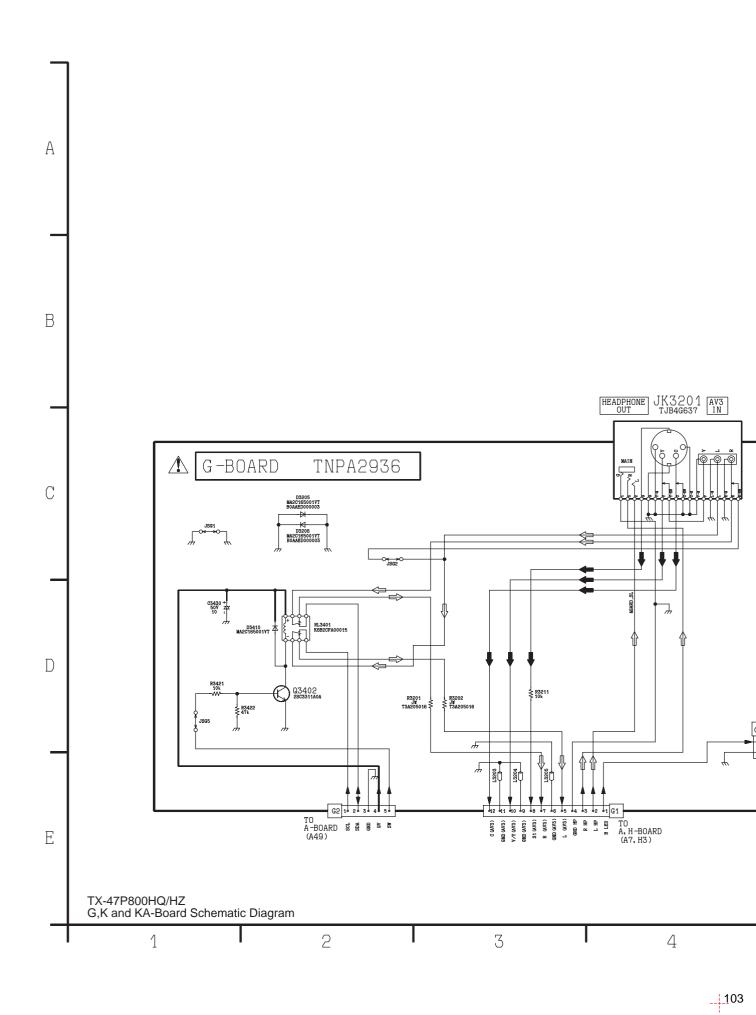




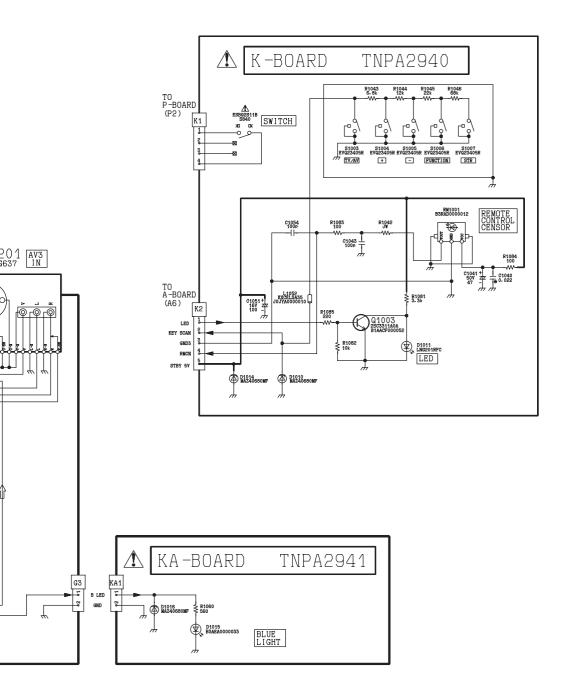




# 14.25. G, K and KA Board Schematic Diagram







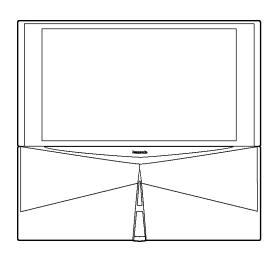


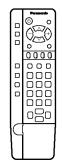
# Service Manual

**Wide Projection Television** 



**GP1VP** 





#### **Specifications**

Power SourceAC 220 - 240 V, 50 / 60 HzPower ConsumptionStand-by condition 0.5 W

Normal viewing 175 W

Dimensions (W  $\times$  H  $\times$  D) 1298 mm  $\times$  1207.5 mm  $\times$  567 mm

Mass (Weight)62 kg (Net)Remote control TransmitterEUR511267

R6 (AA) Battery × 2

#### **Receiving System**

	21 Systems	Function
1	PAL B, G, H	Reception of
2	PAL I	broadcast
3	PAL D, K	transmissions
4	SECAM B, G	and Playback
5	SECAM D, K	from Video
6	SECAM K1	Cassette Tape
7	NTSC M (NTSC	Recorders.
	3.58/4.5 MHz)	

	21 Systems	Function
15	PAL 60 Hz/5.5 MHz	Playback from
16	PAL 60 Hz/6.0 MHz	Special Disc
17	PAL 60 Hz/6.5 MHz	Players and
18	SECAM 60 Hz/5.5 MHz	Special VCR's
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	
1		I

	21 Systems	Function
8 9 10 11 12 13 14	NTSC 4.43/5.5 MHz NTSC 4.43/6.0 MHz NTSC 4.43/6.5 MHz NTSC 3.58/5.5 MHz NTSC 3.58/6.0 MHz NTSC 3.58/6.5 MHz SECAM I	Playback from Special VCR's

**Receiving Channels** 

Regular TV

**VHF BAND** 

2-12 (PAL/SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z)

# **Panasonic**

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1-12 (PAL/SECAM D) 1-12 (NTSC M Japan) 2-13 (NTSC M U.S.A)

#### **UHF BAND**

21-69 (PAL G, H, I/SECAM G, K, K1)

28-69 (PAL AUST.) 13-57 (PAL D, K) 13-62 (NTSC M Japan) 14-69 (NTSC M U.S.A)

#### CATV

S1-S20 (OSCAR) 1-125 (U.S.A CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.)

Receiving Stereo System NICAM I, NICAM B/G, NICAM D, A2 (German)

Tuning System Frequency synthesizer Auto Search Tuning

POSITION: 100 Position
DIRECT: 125 Position

**Audio Output** 40 W [20 W + 20 W] (10 % THD)

Speaker System Woofer (13 cm)  $\times$  2 + Squawker (12 cm  $\times$  6 cm)  $\times$  2 + Tweeter (5 cm)  $\times$  2

Headphones 3.5 mm Plug x 1

Aerial Impedance 75  $\Omega$  Unbalanced coaxial

Video / Audio / Component Terminals

AV 1, 2, 3, 4, S Video In Y: 1 V p-p, 75  $\Omega$ 

C: 0.3 V p-p, 75 Ω

DVD (Y/  $P_B/P_R$ )

Video In 1 V p-p, 75  $\Omega$ 

Audio In Approx.  $0.5 \text{ V } 47 \text{ K}\Omega$ 

Monitor Out Video Out 1 V p-p, 75  $\Omega$ 

Audio Out Approx. 0.5 V, 1 KΩ

AV1 IN (Rear): S Video, Video, Audio L/R terminals AV2 IN (Rear): Video or Y/  $P_B$ /  $P_R$ , Audio L/R terminals AV3 IN (Front): S Video, Video, Audio L/R terminals AV4 IN (Rear): Video or Y/  $P_B$ /  $P_R$ , Audio L/R terminals

Applicable signal to AV2, AV4 Y/ P<sub>B</sub>/ P<sub>B</sub> input terminals: 480i (525i), 576i (625i), 480P (525P) and 576P (625P) and 1080i

(1125i)/50

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

#### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

#### **CONTENTS**

Page	Page
1 Safety Precautions4	3 Disassembly for Service
1.1. General Guide Lines4	3.1. Disassembly Flowchart
1.2. Leakage Current Cold Check4	3.2. Cabinet Side (L, R)7
1.3. Leakage Current Hot Check (See Fig. 1)4	3.3. Speaker Grille7
1.4. X-Radiation4	3.4. Speaker Ass'y ······
2 Chassis Board Layout5	3.5. Cabinet (Upper)

3.6. Screen		11.8. Location of Lead Wiring (8)	
3.7. Mirror		11.9. Location of Lead Wiring (9)	
3.8. Rear Cover (Upper)		12 Conductor Views ·····	
3.9. Rear Cover (Bottom)		12.1. A-Board	
3.10. Disassembly For CRT Removal		12.2. D-Board	
4 Service Hints		12.3. DC-Board ·····	
4.1. Service position for Main chassis	11	12.4. DG-Board ·····	57
4.2. Service Position for DG-Board	11	12.5. H-Board ·····	61
4.3. Service Position for K-Board ·····	11	12.6. LG, LR and LB Board ·····	63
4.4. Service Position for KA-Board ·····	11	12.7. P-Board	64
4.5. Service Position for G-Board	12	12.8. SG-Board ·····	66
5 Self Check ·····	13	12.9. SR and SB Board ·····	67
6 Service Mode Function	14	12.10. U-Board	68
6.1. How to enter SERVICE 1	14	12.11. G, K and KA-Board ·····	····· 70
6.2. How to enter SERVICE 2	14	13 Block Diagram	····· 71
6.3. Option Descrition	16	13.1. Audio Block Diagram	··-71
7 CRT Set Up	19	13.2. Video Block Diagram	····72
7.1. Dynamic Focus Adjustment	···· 19	13.3. Power Block Diagram	···74
7.2. Electrical Focus Adjustment	19	13.4. Control Block Diagram	77
7.3. Optical Lens Focus Adjustment	······ 19	14 Schematic Diagram	····· 79
7.4. Centering Magnet Adjustment	20	14.1. Schematic Diagram Notes	··-79
7.5. Alignment magnet Adjustment ·····	21	14.2. A-Board (1 of 5) Schematic Diagram	80
8 Deflection Adjustment	22	14.3. A-Board (2 of 5) Schematic Diagram ·····	81
8.1. PAL 100Hz mode (100i)	22	14.4. A-Board (3 of 5) Schematic Diagram	82
8.2. PAL 100Hz V Comp mode (100i)	23	14.5. A-Board (4 of 5) Schematic Diagram	83
8.3. PAL Progressive mode (50p) ·····	24	14.6. A-Board (5 of 5) Schematic Diagram	84
8.4. NTSC Progressive mode (60p)	24	14.7. D-Board (1 of 2) Schematic Diagram ·····	85
8.5. 525p Deflection Adjustment / Confirmation	25	14.8. D-Board (2 of 2) Schematic Diagram	86
8.6. 625p Deflection Adjustment / Confirmation	25	14.9. DC-Board Schematic Diagram	
9 Adjustment Procedure	26	14.10. DG-Board (1 of 6) Schematic Diagram	88
9.1. Cut off Adjustment	26	14.11. DG-Board (2 of 6) Schematic Diagram	89
9.2. Sub Contrast / G-Limit Adjustment	27	14.12. DG-Board (3 of 6) Schematic Diagram	90
9.3. Sub Picture Contrast Adjustment	27	14.13. DG-Board (4 of 6) Schematic Diagram	91
9.4. NTSC Tint Adjustment	28	14.14. DG-Board (5 of 6) Schematic Diagram	92
9.5. Sub Color Adjustment ·····	28	14.15. DG-Board (6 of 6) Schematic Diagram	93
9.6. Blue Focus / Gamma Adjustment ·····	29	14.16. H-Board (1 of 2) Schematic Diagram ·····	94
9.7. White Balance Adjustment ·····	29	14.17. H-Board (2 of 2) Schematic Diagram	95
9.8. Sub Bright Adjustment	30	14.18. LG-Board Schematic Diagram ·····	96
9.9. Blue Limit Adjustment	30	14.19. LB and LR-Board Schematic Diagram	97
10 Convergence Adjustment	31	14.20. P-Board Schematic Diagram	98
10.1. Convergence Adjustment Sheet	31	14.21. SG-Board Schematic Diagram	99
10.2. Convergence Adjustment Procedure ·····	32	14.22. SB and SR-Board Schematic Diagram ·····	100
10.3. Coarse Convergence Adjustment mode ·····		14.23. U-Board (1 of 2) Schematic Diagram ·····	101
10.4. Fine Convergence Adjustment ·		14.24. U-Board (2 of 2) Schematic Diagram ·····	102
11 Location of Lead Wiring		14.25. G, K and KA Board Schematic Diagram	
11.1. Location of Lead Wiring (1)		15 Parts Location	
11.2. Location of Lead Wiring (2)		16 Packing Exploded View	
11.3. Location of Lead Wiring (3)		17 Mechanical Replacement Parts List	
11.4. Location of Lead Wiring (4)		18 Electrical Replacement Parts List	
11.5. Location of Lead Wiring (5)		18.1. Replacement Parts List Notes ·····	110
11.6. Location of Lead Wiring (6)		18.2. Electrical Replacement Parts List	111
11.7. Location of Lead Wiring (7)	48		

# 1 Safety Precautions

#### 1.1. General Guide Lines

- It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
- 2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
  - If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
- 4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
- 5. Potential, as high as 30.0kV, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

#### 1.2. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Turn on the Projection Monitor's power switch.
- 3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 M $\Omega$  and 20 M $\Omega$ .

When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$ .

# 1.3. Leakage Current Hot Check (See Fig. 1)

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a  $2k\Omega$ , 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
- 3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to the customer.

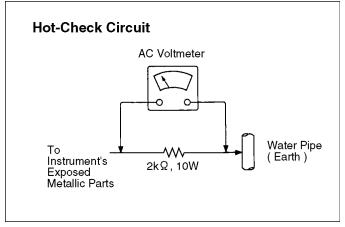


Fig. 1

#### 1.4. X-Radiation

#### Warning:

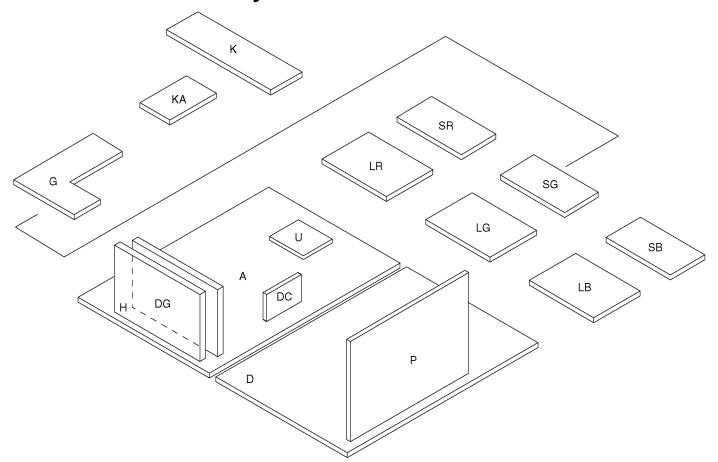
- The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube
- When using a projection tube test jig for service, ensure that jig is capable of handling 30.0kV without causing X-Radiation.

#### Note:

It is important use an accurate periodically calibrated high voltage meter.

- 1. Set the brightness to minimum.
- 2. Set the service switch to the service position.
- 3. Measure the High Voltage. The meter reading should indicate 30.0 ± 1.0 kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- 4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

# 2 Chassis Board Layout

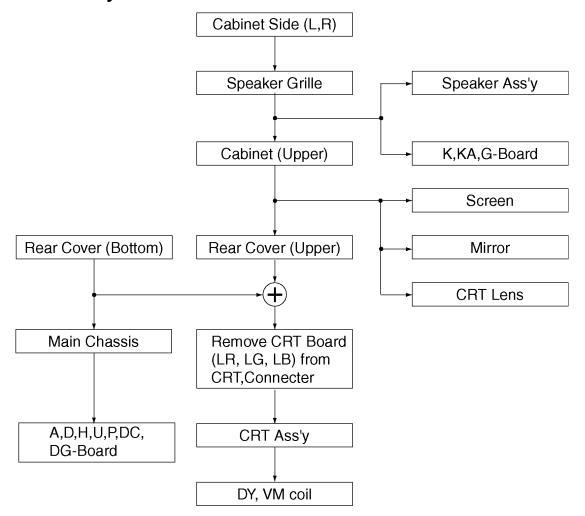


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
SR-Board	VM Output (R)
SG-Board	VM Output (G)
SB-Board	VM Output (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terninal
K-Board	Power Switch
KA-Board	Blue light

# 3 Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

#### 3.1. Disassembly Flowchart

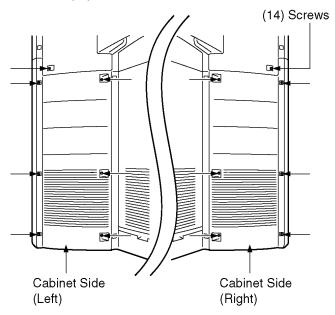


#### Note:

Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

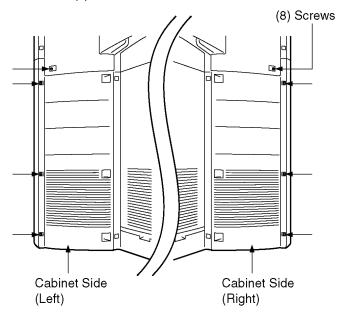
# 3.2. Cabinet Side (L, R)

1. Remove (14) screws.

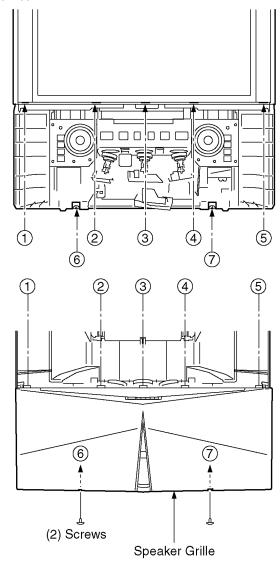


#### 3.3. Speaker Grille

1. Remove (8) screws.

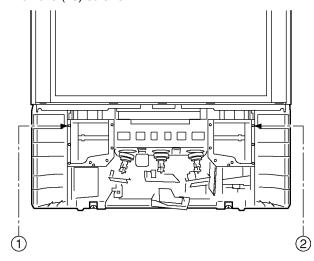


2. Remove (2) screws.

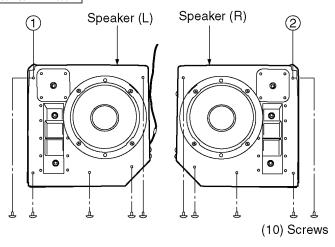


# 3.4. Speaker Ass'y

1. Remove (10) screws.

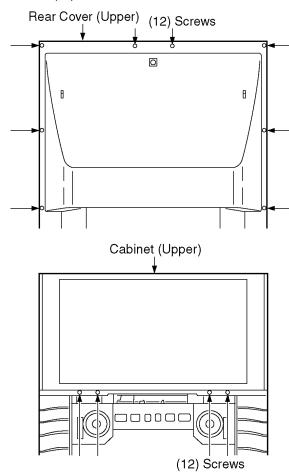


TX-47P800HQ / TX-47P800HZ



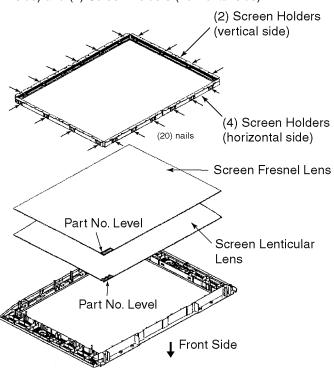
## 3.5. Cabinet (Upper)

1. Remove (12) Screws.



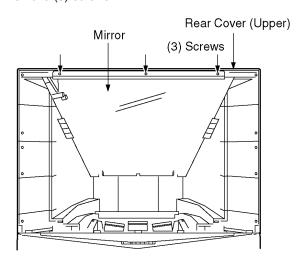
#### 3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).



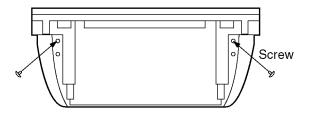
#### 3.7. Mirror

1. Remove (3) screws.



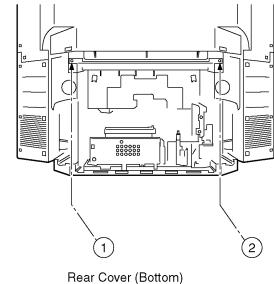
# 3.8. Rear Cover (Upper)

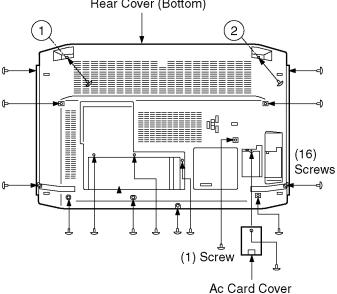
- 1. Remove the Cabinet (Upper).
- 2. Remove (2) screws.



## 3.9. Rear Cover (Bottom)

- 1. Remove (16) screws.
- 2. Remove (1) screw.

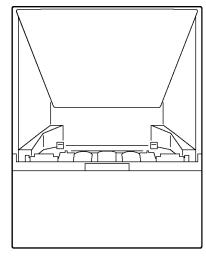




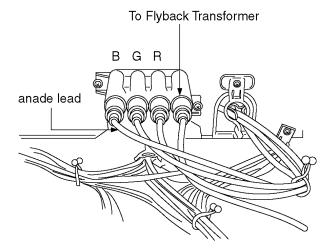
#### 3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

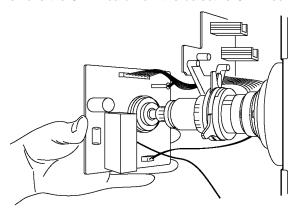
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. ( See Disassemble for Service ).



- 2. Unplug the defective CRT Dag ( GND ), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
- 3. Remove lead wires ( DY, VM coil ) and anode lead wire from holders as necessary.

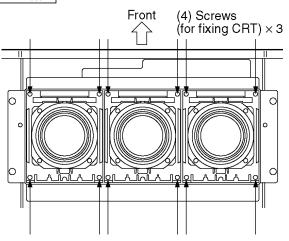


4. Remove the CRT Board from the defective CRT neck.

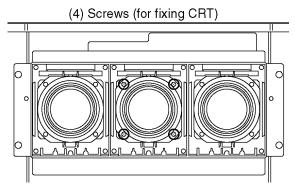


- Note position of yoke with centering tabs and remove from defective CRT.
- 6. From the Top, remove (2) screws from the defective CRT.

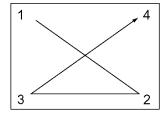
TX-47P800HQ / TX-47P800HZ



- 7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
- 8. Wire the anode lead wire.
- 9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
- 10. Lay CRT face down on a soft cloth.
- 11. Remove CRT lens by removing (4) screws.



- 12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
- 13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
- 14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



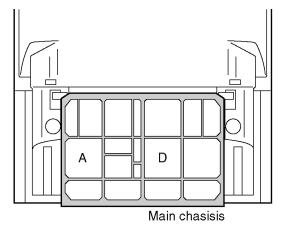
#### Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

## 4 Service Hints

# 4.1. Service position for Main chassis

- 1. Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.
- 2. Remove lead wires and bundles from holders as necessary.
- 3. Pull out main chassis and stand it.

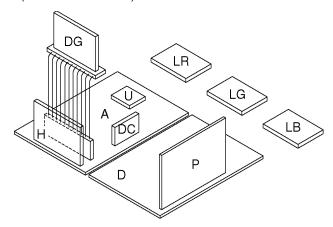


#### 4.2. Service Position for DG-Board

- 1. Remove the each circuit board from A or D-Board.
- 2. Connect extension cables between individual circuit board and A or D-Board.

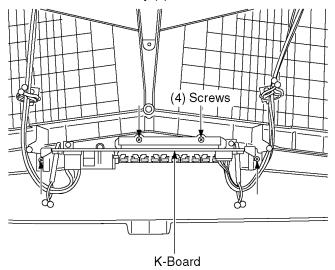
#### Note:

Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)



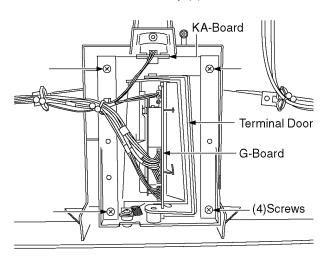
#### 4.3. Service Position for K-Board

- 1. Remove the Speaker Grille.
- 2. Remove the K-Board by (4) screws.

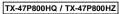


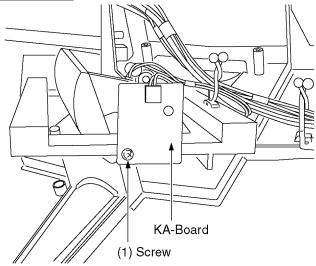
#### 4.4. Service Position for KA-Board

- 1. Remove the Speaker Grille.
- 2. Remove the Terminal Door by (4) screws.



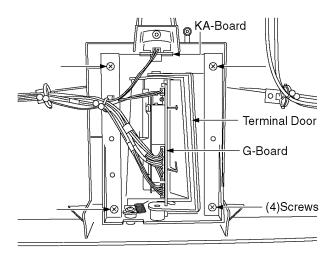
3. Remove the KA-Board by (1) screws.



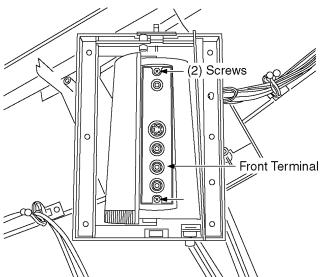


#### 4.5. Service Position for G-Board

- 1. Remove the Speaker Grille.
- 2. Remove the Terminal Door by (4) screws.

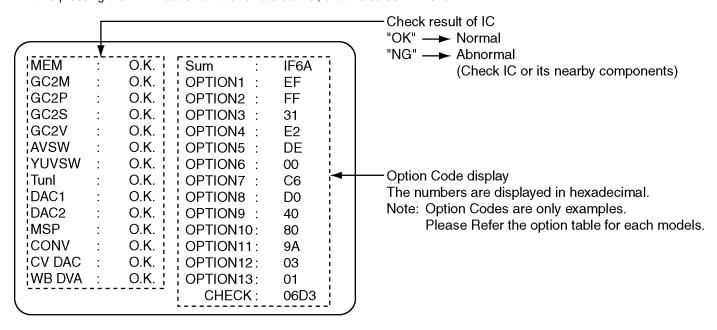


3. Remove the G-Board by (2) screws.



#### 5 Self Check

- 1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
- 2. To get into the Self -Check mode press the down (-/V) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show:



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
YUVSW	IC3004	YUV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

# **6 Service Mode Function**

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

#### 6.1. How to enter SERVICE 1

- 1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
- 2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [ ] on the TV set.

#### 6.2. How to enter SERVICE 2

- 1. Set the channel to CH99.
- 2. Press HOLD button on remote control.

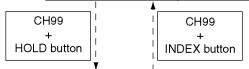
#### Note:

To exit to Service mode, press N or Power button on remote control.

#### **SERVICE 1**

SERVICE 1				
Function	Average Data			
H-Pos	438			
V-Pos	132			
H-Amp	36			
V-Amp	74			
Parabola	76			
Trapezoid	131			
H-Parallel	8			
V-Linear	138			
Top-Corner	177			
Bottom-Corner	177			
V-S-Correct	60			
C-Correct	7			
IVBL C	115			
G-LIMIT	197			
B-LIMIT	183			
WB-B-G-ST1	175			
R High(Drive)	0083			
G High(Drive)	0122			
B High(Drive)	0122			
R Low(Cut off)	0630			
G Low(Cut off)	0640			
B Low(Cut off)	0640			
Sub-Bright	138			
Sub-Contrast	133			
Sub-Colour	24			
Sub-NTSC Tint	-1			
SECAM B-Y	192			
SECAM R-Y	70			
Sub-NTSC Tint2	129			
Sub SECAM B-Y	192			
Sub SECAM R-Y	70			
Video Gain 2	20			
SDRAM-F	-1			
DAF-H-PARA	322			
DAF V-SAW	9			
DAF V-PARA	19			
Coarse Convergence	Access			
Fine Convergence	Access			

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.



## SERVICE 2

Function		Function	
Y/C Delay	04	OPTION 8	10
OPTION 1	FF	OPTION 9	40
OPTION 2	FF	OPTION 10	80
OPTION 3	23	OPTION 11	C2
OPTION 4	E2	OPTION 12	01
OPTION 5	DE	OPTION 13	01
OPTION 6	01	Hours	00005
OPTION 7	46		

# 6.3. Option Descrition

Options		HQ	HZ		ASIA
optior	option1		4F		
0E0	b0	1	1	Colour system	Auto (1)
	b1	1	1		SECAM (1)
	b2	1	1		NTSC (1)
	b3	1	1		M.NTSC (1)
	b4	0	0	JPEG (1)	enable (1)
	b5	0	0	BBE (1)	enable (1)
	b6	1	1	BLUE LED (1)	enable (1)
	b7	0	0	YUV-SW (1)	enable (1)
optior	12	FF	FF	,	
0E1	b0	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1		NZ/INDNES (1)
	b2	1	1		AUSTRALIA (1)
	b3	1	1		E.EUROPE (1)
	b4	1	1		SPECIAL (1)
	b5	1	1		AMERICA (1)
	b6	1	1		CATV (1)
	b7	1	1		JAPAN (1)
optior	_	21	21		
0E2	b0	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	VGA	enable (1)
	b3	0	0	AV5	enable (1)
	b4	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0	, - ···	5.5 / 6.5 (2), 6.0 / 6.5 (3)
optior	_	E2	E2		
0E3	b0	0	0	A2 enable	4.5 (1)
	b1	1	1		5.5 (1)
	b2	0	0		6.0 (1)
	b3	0	0		6.5 (1)
	b4	0	0	NICAM enable	4.5 (1)
	b5	1	1		5.5 (1)
	b6	1	1		6.0 (1)
	b7	1	1		6.5 (1)
optior		DE	DE		
0E4	b0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	1 59	HK / UK (1)
	b3	1	1		CHINA (1)
	b4	1	1		NZ / INDN (1)
	b5	0	0		AUSTRA (1)
	b6	1	1		E.EURO (1)
	b7	1	1		SPECIAL (1)
	, , , ,	<u>'</u>	'		

Optio	ns	HQ	HZ		ASIA
option	option6		00		
0E5	b0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	SASO enable	SASO enable (1)
	b2	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	free	
	b7	0	0		No motion cotrol in film mode (1)
option	17	C6	C6		
0E6	b0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	Owner ID	enable (1)
option	_	D0	50		
0E7	b0	0	0	Teletext CH Refrech	enable (1)
02,	b1	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	Fine tuning	Enable (1)
	b5	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	TEXT FLOF	Reserved
	b7	1	0	TEXT TOP	TOP enable (1)
option		40	40		( )
0E8	b0	0	0	Dolby	Dolby enable (1)
	b1	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	L1PSYNC	L1PSYNC enable (1)
option		80	80		
0E9	b0	0	0	OSD language	English *Chinese *Arabia (0), English *Russian (1)
020	b1	0	0	ACI all country	not use
	b2	0	0	ACI auto MP	not use
	b3	0	0	ACI offset	not use
	b4	0	0	Blue Back	
	b5	0	0	BC Safety	Reserved
	b6	0	0	Protect XPR	Reserved
	b7		1	Protect 5V detect	Protection input enable (1)
	υ/	1	1	Frotect 5 v detect	Protection input enable (1)

Optic Mode	ns el	HQ	HZ		ASIA
option11		42	42		
0EA	b0	0	0	Acuify Demo	enable (1)
	b1	1	1	Picture Shift	enable (1)
	b2	0	0	Shop mode	enable (1)
	b3	0	0	User aspect Just	enable (1)
	b4	0	0	User aspect 14:9	enable (1)
	b5	0	0	NICAM C4 bit	enable (1)
	b6	1	1	ID-1enable (1)	
	b7	0	0	1080i	enable (1)
optior	112	03	01	Area Option	
0EB	b0	1	1	Asia	Asia (1), europe (0)
	b1	1	0	Australia	Australia (1)
	b2	0	0	Ireland	/India India (1)
	b3	0	0	UK not use	
	b4	0	0	MELCOA	MELCOA (1)
	b5	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	LED	enable (1)
	b7	0	0	free	
optior	113	01	01	Temporary	
0EC	b0	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	New ALBD	ALBD 14:9 & ZOOM3 disable (1)
	b3	0	0		
	b4	0	0		
	b5	0	0	TEXT refresh for Euro	not use
	b6	0	0		
	b7	0	0		

## 7 CRT Set Up

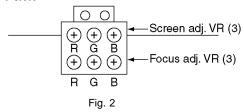
#### Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

## 7.1. Dynamic Focus Adjustment

- 1. Focus adjustments should be performed after 1 hour of aging.
- 2. Use oscilloscope with 100: 1 probe.
- 3. Apply PAL monoscope pattern.
- 4. Set scan mode to 100Hz.
- 5. Set the picture menu to Dynamic.
- Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)

#### Focus Pack



- 7. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
- 8. Adjust V-PARA (Service mode1) so that waveform (A) is  $260V \pm 20V$ . (Fig. 3)
- 9. Adjust H-PARA (Service mode1) so that waveform (B) is  $560V \pm 40V$ . (Fig. 3)

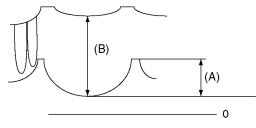


Fig. 3

- 10. Set scan mode to PAL 100V Comp.
- 11. Set the picture menu to Dynamic.
- 12. Adjust V-PARA (Service model) so that waveform (A) is  $180V \pm 20V$ . (Fig. 3)
- 13. Adjust H-PARA (Service model) so that waveform (B) is  $560V \pm 20V$ . (Fig. 3)
- 14. Set scan mode to Progressive.
- 15. Repeat step 6-9.
- 16. Apply NTSC monoscope pattern.
- 17. Set scan mode to Progressive.
- 18. Repeat step 6-9.
- 19. Set scan mode to 100Hz.
- 20. Repeat step 6-9.
- 21. Apply monoscope pattern of PAL 1080i 50Hz.
- 22. Repeat step 6-9.
- 23. Proceed with Focus Adjustments.

## 7.2. Electrical Focus Adjustment

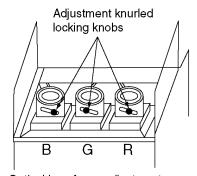
- 1. Receive a monoscope pattern.
- Cover the Red and Blue CRT, projecting Green only.
   The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
- 3. Repeat for Red focus VR while projecting Red only.
- 4. Repeat for Blue. (Best focus at bottom left corner of screen)

# 7.3. Optical Lens Focus Adjustment

#### Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

 Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)



Optical lens focus adjustment Fig. 4 (Rear view)

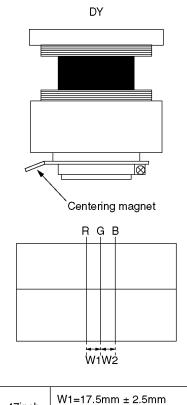
- 2. Turn the Receiver ON apply and view a monoscope pattern.
- Adjust each lens focus for best focus while viewing each CRT.
- 4. Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.
- Do the same for the Red focus lens while projecting Red only.
- 6. Repeat for Blue.

## 7.4. Centering Magnet Adjustment

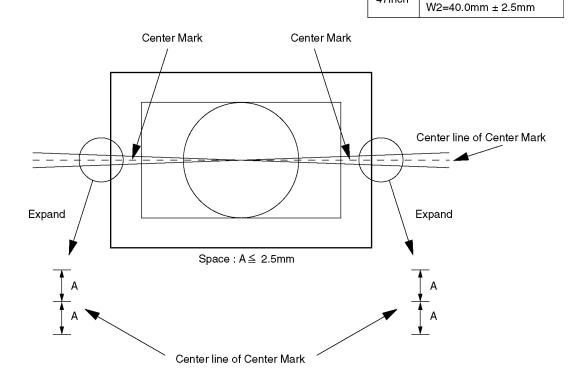
- 1. Receive a monoscope pattern.
- 2. Set that Fine convergence data (Service mode1) is clear (no correction).
- 3. Set that V-Pos data (Service mode1) is [130].
- 4. Set that H-Pos data (Service mode1) is [438].
- 5. Set that H-Parallel data (Service mode1) is [8].

#### Procedure:

- 1. Cover the Red, Blue CRT lens, projecting Green only.
- Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
- 3. Cover the Green, Red CRT lens, projecting Blue only.
- 4. Repeat step 2. for blue.
- 5. Cover the Green, Blue CRT lens, projecting Red only.
- 6. Repeat step 2. for red.
- 7. Cover the Red, Blue CRT lens, projecting Green only.
- 8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
- 9. Cover the Green, Red CRT lens, projecting Blue only.
- Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
- 11. Cover the Green, Blue CRT lens, projecting Red only.
- Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.



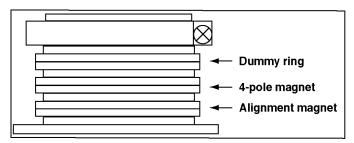
47inch



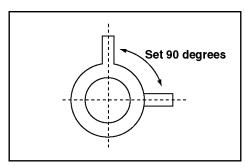
## 7.5. Alignment magnet Adjustment

#### Preparation:

- 1. Receive an cross hatch pattern with dots (pincushion).
- 2. Loosen the centering magnets screws.
- 3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

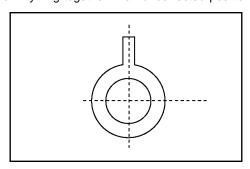


VM Coil with focus correction magnet



4-pole magnet

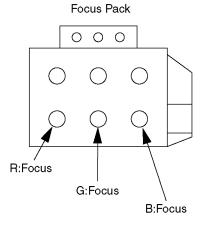
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.



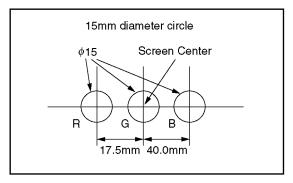
Alignment magnet (or dummy ring)

#### Procedure:

- 1. Receive an cross hatch pattern with dots.
- 2. Cover the Red, Blue CRT lens, projecting Green only.
- 3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
- Turn the green electrical focus adjustment VR fully clockwise.
- 5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
- 6. Adjust for best green electrical focus with green electrical focus adjustment VR.
- 7. Cover the Green, Red CRT lens, projecting Blue only.
- 8. Repeat step 4. ~ step 6. for blue electrical focus.
- 9. Cover the Green, Blue CRT lens, projecting Red only.
- 10. Repeat step 4. ~ step 6. for red electrical focus.



- 11. Receive an monoscope pattern.
- 12. Cover the Red, Blue CRT lens, projecting Green only.
- 13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)



Centering magnet adjustment

- 14. Cover the Green, Blue CRT lens, projecting Red only.
- 15. Repeat step 13. for the red.
- 16. Cover the Green, Red CRT lens, projecting Blue only.
- 17. Repeat step 13. for the blue.
- 18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

## 8 Deflection Adjustment

#### Caution

- The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i).
- Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
- Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

## 8.1. PAL 100Hz mode (100i)

## 8.1.1. Preparation

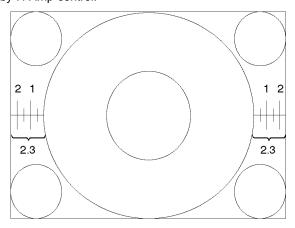
- 1. Receive PAL monoscope pattern.
- 2. Set scan mode to 100Hz.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	180
V-Pos	130	Bottom-Corner	177
H-Parallel	8	V-S-Correct	60
IVBL C	115	C-Correct	7

- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

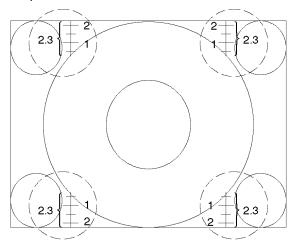
## 8.1.2. H-Pos and H-Amp Adjustment

- Adjust Monoscope pattern for center of the screen by H-Pos control.
- 2. Adjust Horizontal amplitude for 2.3 ±0.1 division of a scale by H-Amp control.

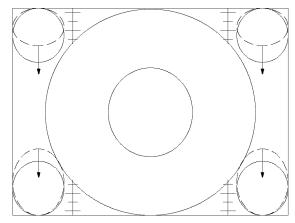


# 8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.3 \pm 0.1$  division of a scale by V-Amp control.



Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



 Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

# 8.1.4. Parabola and Trapezoid Adjustment

- 1. Receive PAL cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

# 8.2. PAL 100Hz V Comp mode (100i)

## 8.2.1. Preparation

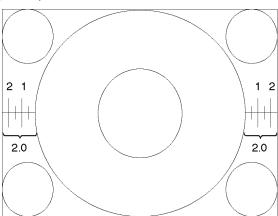
- 1. Receive PAL monoscope pattern.
- 2. Set scan mode to 100Hz.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom-Corner	188
H-Parallel	8	V-S-Correct	25
IVBL C	45	C-Correct	7

- 7. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

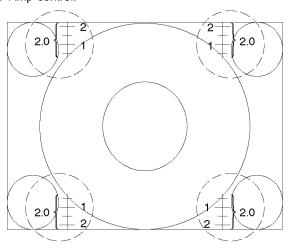
### 8.2.2. H-Pos and H-Amp Adjustment

- Adjust Monoscope pattern for center of the screen by H-Pos control.
- 2. Adjust Horizontal amplitude for 2.0  $\pm$ 0.1 division of a scale by H-Amp control.

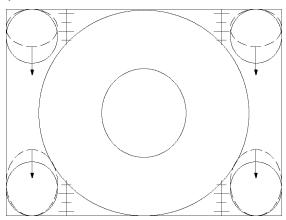


# 8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.0  $\pm$  0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



 Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

# 8.2.4. Parabola and Trapezoid Adjustment

- 1. Receive PAL cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

## 8.3. PAL Progressive mode (50p)

## 8.3.1. Preparation

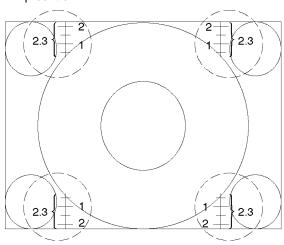
- 1. Receive PAL monoscope pattern.
- 2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
- 3. Set scan mode to progressive.
- 4. Set the Aspect Menu to 16:9.
- 5. Set the Picture Menu to NORMAL.
- 6. Set the TV to Service Mode 1.
- 7. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	177
IVBL C	95	V-S-Correct	65
Top-Corner	177	C-Correct	7

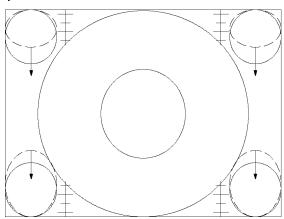
- 8. Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 9. Push [ HELP ] button so that projecting Green only.

# 8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.3 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



 Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

## 8.4. NTSC Progressive mode (60p)

### 8.4.1. Preparation

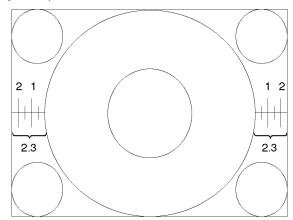
- 1. Receive NTSC monoscope pattern.
- 2. Set scan mode to Progressive.
- 3. Set the Aspect Menu to 16:9.
- 4. Set the Picture Menu to NORMAL.
- 5. Set the TV to Service Mode 1.
- 6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	167
IVBL C	95	V-S-Correct	65
Top-Corner	176	C-Correct	7

- Push [ 0 ] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
- 8. Push [ HELP ] button so that projecting Green only.

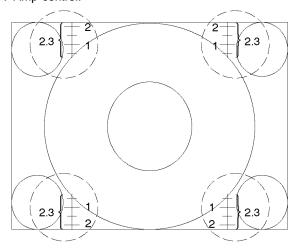
### 8.4.2. H-Pos and H-Amp Adjustment

- Adjust Monoscope pattern for center of the screen by H-Pos control.
- 2. Adjust Horizontal amplitude for  $2.3 \pm 0.1$  division of a scale by H-Amp control.

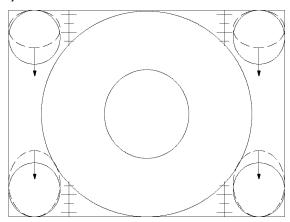


# 8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for  $2.3 \pm 0.1$  division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



 Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

# 8.4.4. Parabola and Trapezoid Adjustment

- 1. Receive NTSC cross hatch pattern.
- 2. Adjust the vertical line to straight line by Parabola control.
- 3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

# 8.5. 525p Deflection Adjustment / Confirmation

#### 8.5.1. V / H-Deflection confirmation

- 1. Receive 525p signal.
- 2. Confirm V / H-Deflection is normal.

## 8.5.2. H-Pos confirmation / Adjustment

- 1. Receive 525p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

# 8.6. 625p Deflection Adjustment / Confirmation

#### 8.6.1. V / H-Deflection confirmation

- 1. Receive 625p signal.
- 2. Confirm V / H-Deflection is normal

## 8.6.2. H-Pos confirmation / Adjustment

- 1. Receive 625p signal.
- 2. Confirm H-Pos and if need, adjust H-Pos.

## 9 Adjustment Procedure

## 9.1. Cut off Adjustment

Preparation

Picture Menu: Dynamic WB-B-G-ST1: 255

C Temp: Standard High-RGB: 128

AI: ON Low-RGB: 640

P-NR: AUTO

Scan Mode: 100Hz (PAL) G-Limit: 255

Screen VR: Full Counterclockwise B-Limit: 255

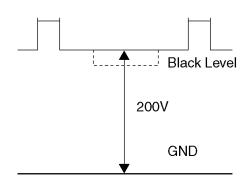
#### Adjustment

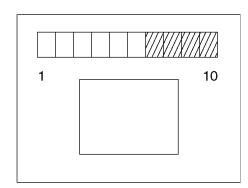
1. Receive a Black Level pattern.

2. Connect an oscilloscope to TPLG1 on LG-Board.

- 3. Adjust Sub Bright so that the waveform A is  $200 \pm 2V$ .
- 4. Connect an oscilloscope to TPLR1 on LR-Board.
- 5. Adjust Low-R so that the waveform A is  $200 \pm 2V$ .
- 6. Connect an oscilloscope to TPLB1 on LB-Board.
- 7. Adjust Low-B so that the waveform A is  $200 \pm 2V$ .
- 8. It pushes and it makes a [HELP] key the project only of GREEN.
- 9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
- 10. It pushes and it makes a [HELP] key the project only of RED.
- 11. The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
- 12. It pushes and it makes a [HELP] key the project only of BLUE.
- 13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.

#### TPLG1/R1/B1





## 9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu: Dynamic WB-B-G-ST1: 255

C Temp: Standard High-RGB: 128

AI : ON Low-G : 640

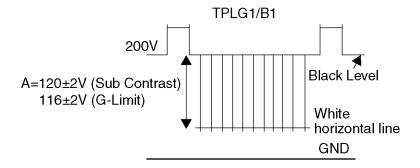
P-NR: AUTO G-Limit: 255

Scan Mode: 100Hz (PAL)

Cut off Adjustment has been adjusted

#### Adjustment

- 1. Receive a Cross Hatch pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Contrast so that the waveform A is  $120 \pm 2V$ .
- 4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
- 5. Adjust G-Limit so that the waveform A is  $116 \pm 2V$ .



## 9.3. Sub Picture Contrast Adjustment

Preparation

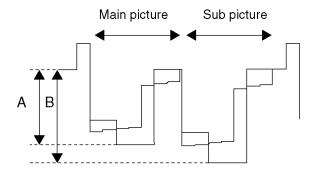
Picture Menu : Dynamic

AI: ON

#### Adjustment

- 1. Receive a Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.
- 4. Write same date on

Video gain TV as Video gain AV.



## 9.4. NTSC Tint Adjustment

#### Preparation

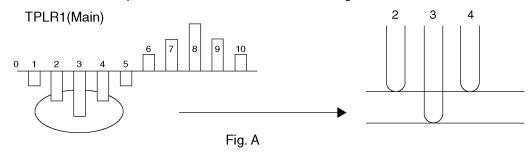
Picture Menu: Dynamic P-NR: AUTO

C Temp: Standard Scan Mode: 100Hz (PAL)

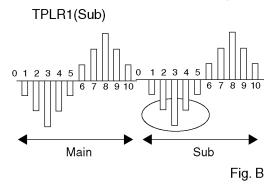
AI: ON

#### Adjustment

- 1. Receive a Rainbow (NTSC 3.58Hz) pattern.
- 2. Connect an oscilloscope to TPLR1 on LR-Board.
- 3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.



- 4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
- 5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.



## 9.5. Sub Color Adjustment

#### Preparation

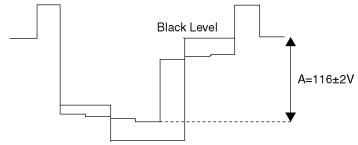
Picture Menu: Dynamic P-NR: AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

AI: ON ACL: OFF

#### Adjustment

- 1. Receive a PAL Colour Bar pattern.
- 2. Connect an oscilloscope to TPLG1 on LG-Board.
- 3. Adjust Sub Color so that the waveform A is 116  $\pm$  2V.



## 9.6. Blue Focus / Gamma Adjustment

Preparation

Picture Menu: Dynamic WB-B-G-ST1: 100

C Temp: Standard B-Limit: 255

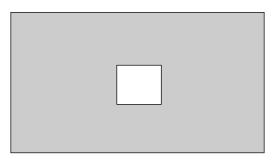
AI: ON

P-NR: AUTO

Scan Mode: 100Hz (PAL)

#### Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Set the Sub Contrast and High-B to Max.
- 4. It pushes and it makes a [HELP] key the project only of BLUE.
- 5. Adjust Blue Focus VR so that Y is  $7.0 \pm \text{cd/m}^2$



## 9.7. White Balance Adjustment

Preparation

Picture Menu : Dynamic Sub Bright :130

C Temp : Standard High R : 100

AI : ON

P-NR: ON High B: 128

Scan Mode: 100Hz (PAL) WB-B-G-ST1: 170

Low G: 640

#### Adjustment

- 1. Set the White Balance Meter on Screen center.
- 2. Receive a Window pattern.
- 3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
- 4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

Mode	Bright	Controle [	DAC name	Target (x)	C. Temp	MPCD
	(cd/m²)	RED	BLUE	(y)	(K)	
Hi	120	High D	WB-B-G-ST1	0.265 ± 0.005	13000 ± 500	-5 ± 5
	120	High R	WD-D-G-311	0.250 ± 0.005	13000 ± 300	_5±5
Mid	1 45		Llimb D	0.265	11500 ± 500	-20 ± 5
IVIIG	45		High B	$0.235 \pm 0.005$	11300 ± 300	-2013
Laur	0	L avv. D	L avv. D	$0.280 \pm 0.008$	9200 ± 500	-25 ± 5
Low	3	Low R	Low B	0.240 ± 0.008	9200 ± 500	-25 ± 5

## 9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp: Dynamic Scan Mode: 100Hz (PAL)

AI: ON

Cut off and White Balance Adjustment has been adjusted

#### Adjustment

1. Set the White Balance Meter on Screen center.

2. Receive a PAL Window pattern.

3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.

## 9.9. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic C Temp : Standard

AI : ON P-NR : ON

Scan Mode: 100Hz (PAL)

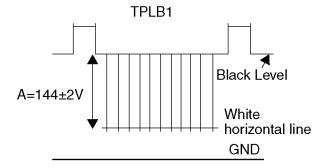
White Balance Adjustment has been adjusted

#### Adjustment

1. Receive a Cross Hatch pattern.

2. Connect an oscilloscope to TPLB1 on LB-Board.

3. Adjust B-LIMIT so that the waveform A is  $144 \pm 2V$ .



# 10 Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment for NTSC mode.

#### When replacing the following Parts.

IC7301 (EEP-ROM in A-Board)L551 (Pincushion Coil)High Voltage Producing Parts Other Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper. Then adjust the convergence.

When replacing one of the CRT's.

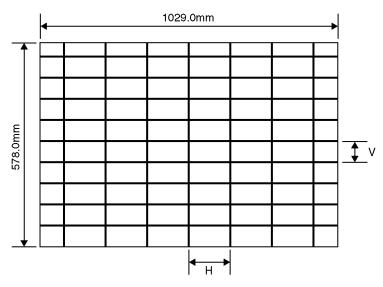
Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

#### **Helpful Hint**

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory. This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL). To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these. (Page 29)

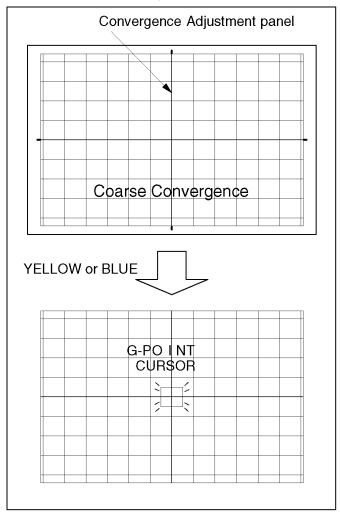
## 10.1. Convergence Adjustment Sheet



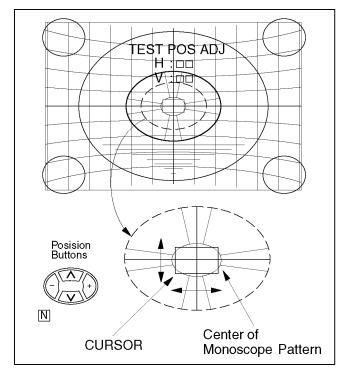
	メッシュヒ	゚ッチ(mm)
信号	Н	V
PAL 100	176.5	75.5
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	75.5
NTSC Progressive	170.5	77.5
1080i/50	191.5	81.5

## 10.2. Convergence Adjustment Procedure

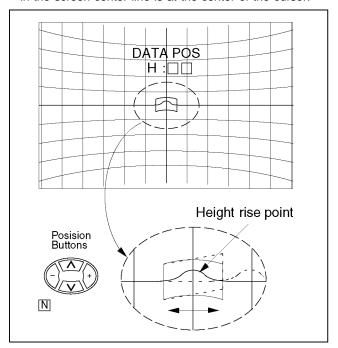
- 1. Input a monoscope pattern of PAL.
- 2. Enter the Service Mode1.
- 3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
- Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
- 5. Push the "YELLOW" or "BLUE" on the remote control, and enter the Coarse Convergence Adjustment mode.



- 6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
- 7. Enter to "TEST POS." mode.
- 8. Push the "5" button to display the monoscope pattern on the screen.
- 9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.



- 10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
- 11. Push the "5" button and close the background image (monoscope pattern).
- 12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.



- 13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
- 14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
- 15. Push the "SET UP" button, and "N" button to store data.
- 16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

## 10.3. Coarse Convergence Adjustment mode

	MODE	S	AMPL	E DATA	DAC DATA UP	DAC DATA DOWN		MODE	S	AMPI	E DATA	DAC DATA UP	DAC DATA DOWN			
			R	118						R	-95					
		н	G	11	++ ++		3	LINEARITY	н	G	94		4			
1	STATIC		В	-231	الخف الحف الحف					В	335	••	44			
			R	24	<b>†</b>	<b></b>	4			R	130		•			
		V	G	23				KEYSTONE	V	V G	23					
			В	34	\$	<u> </u>				В	-89					
			R	-81						R	R 56		7			
		н	G	-95				PIN -	н	G	37					
2	2 SIZE -		В	-42			5			В	37	4 4				
			R	-23	<b>††</b>	<del>                                  </del>		1 114		R	241					
		v	G	-17					v	G	291					
			В	-51	<u> </u>	<u> </u>				В	279					
			R	-7	(+ (+ (+					R	5	7 7	<del></del>			
		н	G	-4			6	CORNER	Н	G	-18					
3	SKEW		В	-2	44 44					В	-69		4-4-4-			
			R	-4												
		v	G	1												
			В	4												

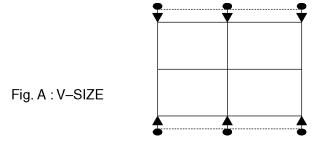
## 10.3.1. Green Coarse Convergence Adjustment

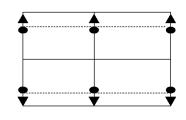
### **10.3.1.1.** Reparation

Push the "SOUND" button, and select the Green Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Green" colour.

## 10.3.1.2. "G-SIZE (V)" adjustment

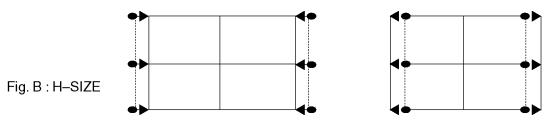
Push the "TV/AV" buttons, and select the "G-SIZE (V)". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.





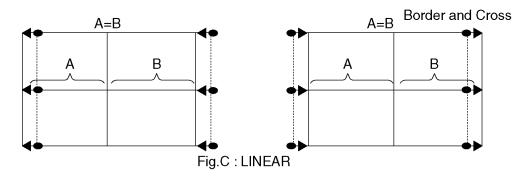
## 10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.



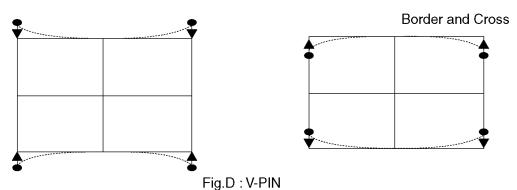
## 10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR". Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.



## 10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.



## 10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN". Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

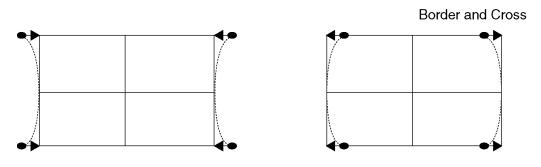


Fig.E: H-PIN

## 10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

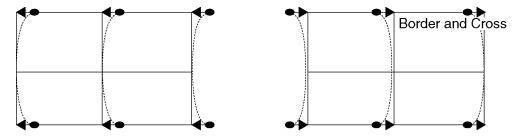


Fig.F: CORNER

## 10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY". Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

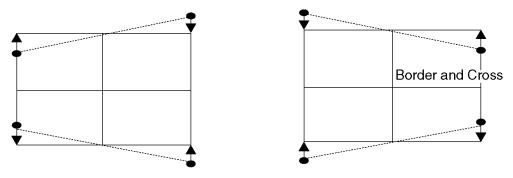


Fig.G: KEY

## 10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC". Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

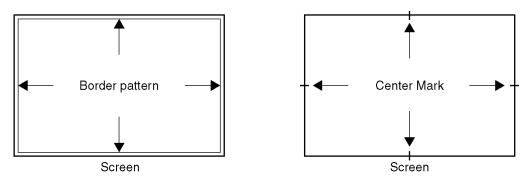


Fig.H STATIC

### 10.3.2. Red Coarse Convergence Adjustment

## 10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Yellow" colour. Push the "POSITION" button, and adjust the "R-STATIC" so that the Red color of pattern is aligned with Green colour of pattern.

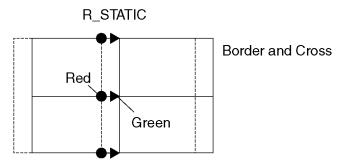
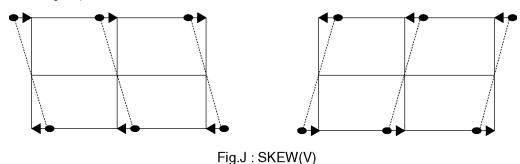


Fig.I: R-STATIC

## 10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)



## 10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

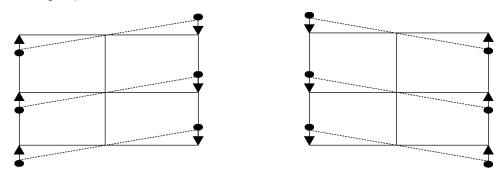


Fig.K: SKEW(H)

## 10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

## 10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

### 10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR". Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

### 10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN". Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

## 10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

### 10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER". Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

#### 10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY". Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

#### 10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

#### 10.3.3. Blue Coarse Convergence Adjustment

#### **10.3.3.1.** Reparation

Push the "SOUND" button, and select the Blue Adjustment mode. Push the "2" button, and select the "Border and Cross" pattern. Push the "MUTE" button, and select the "Cyan" colour. Push the "POSITION" button, and adjust the "B-STATIC" so that the Blue color of pattern is aligned with Green colour of pattern.

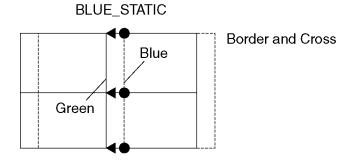


Fig.L: B-STATIC

## 10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

#### 10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW". Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

#### 10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

## 10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE". Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

#### 10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR". Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

## 10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

## 10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN". Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

## 10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER". Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

#### 10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY". Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

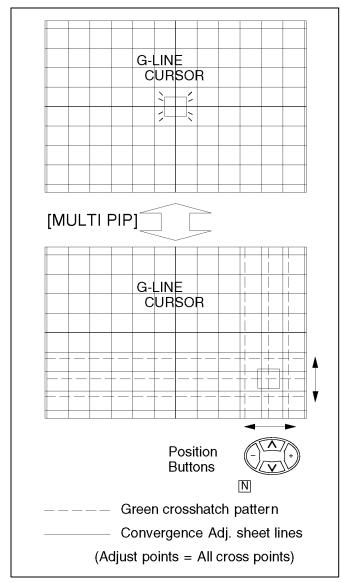
## 10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

## 10.4. Fine Convergence Adjustment

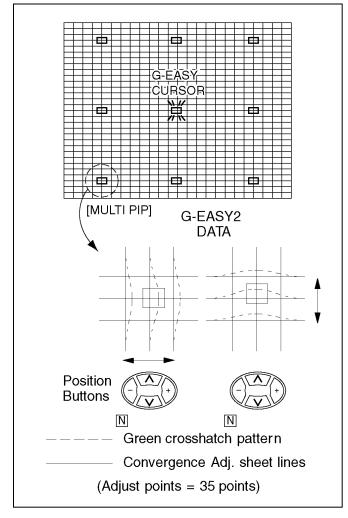
### 10.4.1. Green Convergence Adjustment

 Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control

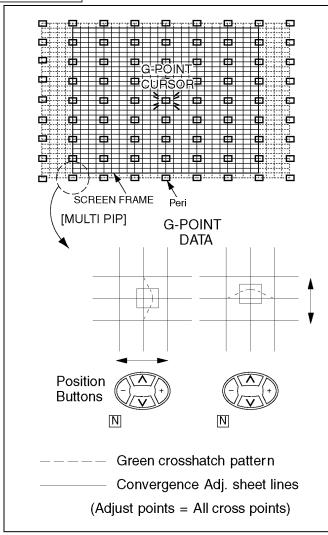


- 2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
- 5. Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).
- 6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
- 7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".

- 8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
- 10. Repeat step 7~9 to adjust the 9 adjustment points.



- 11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
- 12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
- 13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
- 14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
- 15. Repeat step 12-14 to adjust all of adjustment points.



16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

- 17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E<sup>2</sup>PROM).
- Remove the Convergence Adjustment Sheet from the screen.

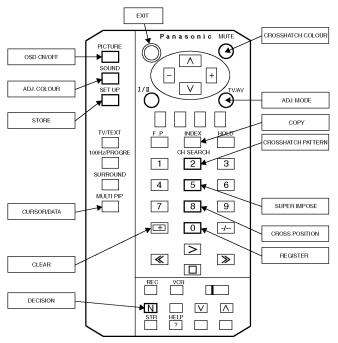
## 10.4.2. Red Convergence Adjustment

- 1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
- 2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
- 3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

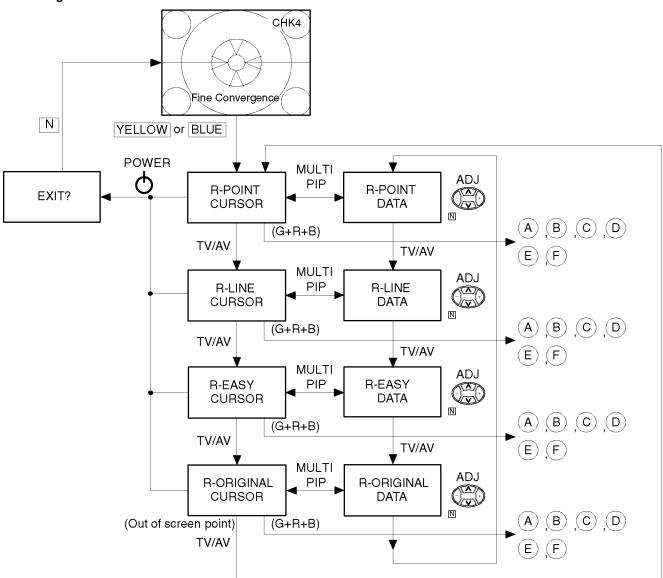
### 10.4.3. Blue Convergence Adjustment

- 1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
- Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
- 3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
- 4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button.

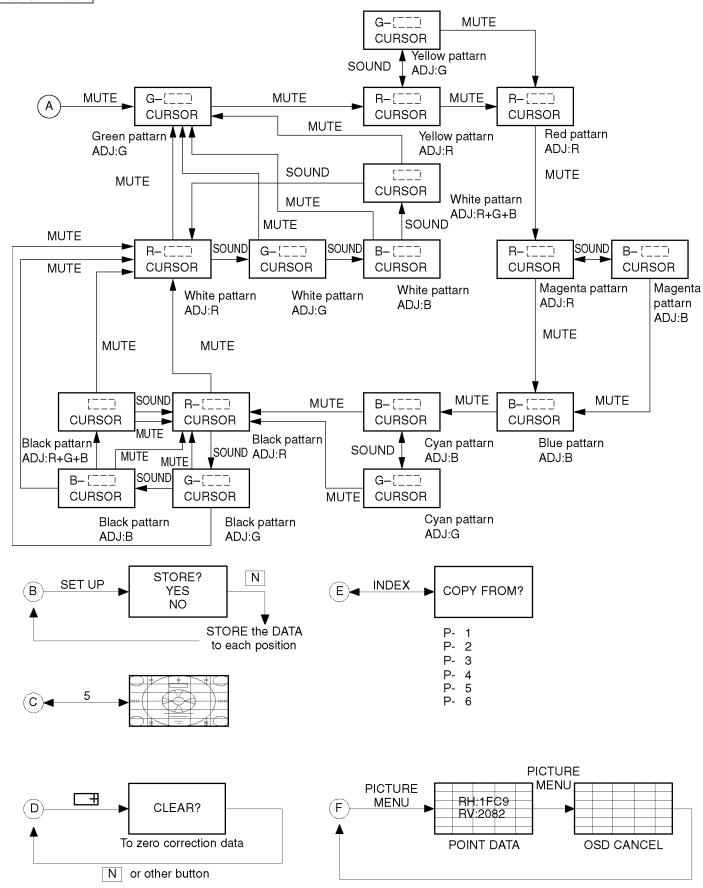
Repeat the same adjustment after inputting the 60Hz (NTSC) signal.



#### **Fine Convergence Control Chart**

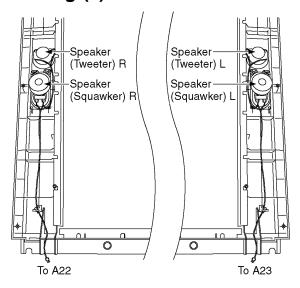


TX-47P800HQ / TX-47P800HZ

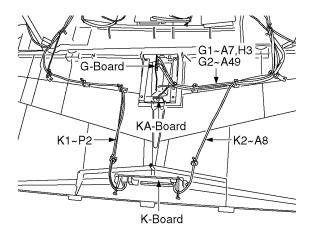


# 11 Location of Lead Wiring

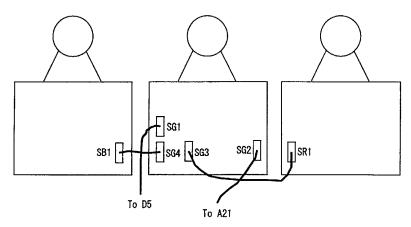
## 11.1. Location of Lead Wiring (1)



## 11.2. Location of Lead Wiring (2)

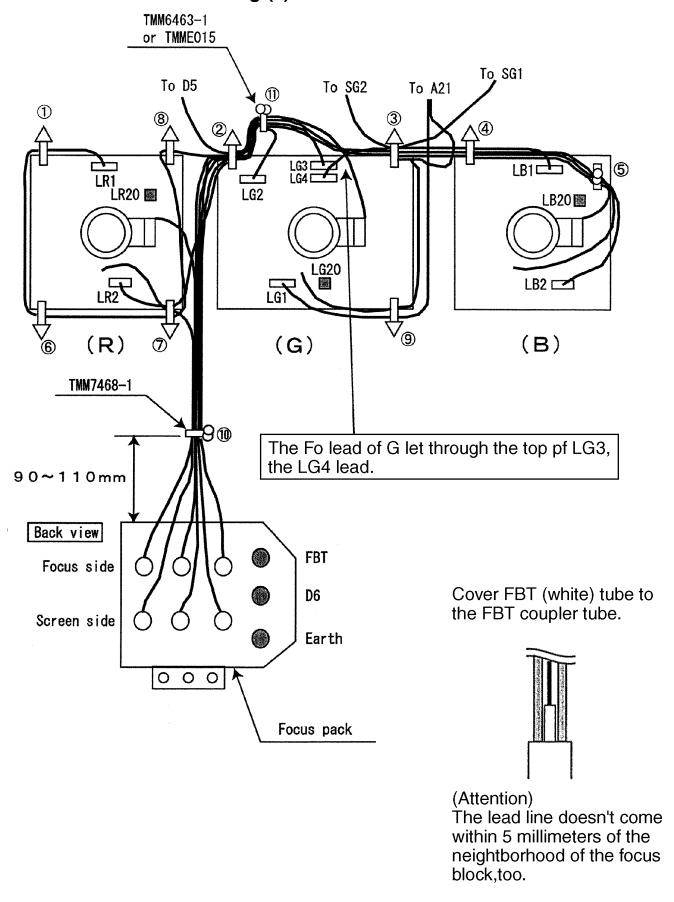


## 11.3. Location of Lead Wiring (3)



INSERTION OF CONNECTOR SB1, SG1, SG2, SG3, SG4, SR1

## 11.4. Location of Lead Wiring (4)



#### **INSERTION OF CONNECTOR**

LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2, LR20, LG20, LB20

## CLAMP DOUBLE CLAMP: ①

WIRES	1	2	3	4	(5)	6	7	8	9	10	11	12	13	14)	(15)	16	17	18	19	20
SG2																				
SG1																				
Focus(R)																				
Focus(G)																				
Focus(B)																				
Screen(R)																				
Screen(G)																				
Screen(B)																				
LR1~LG3																				
LR2~A21		•																		
LG1~A21																				
LG4~LB1																				
LG2~D5																				
LB2																				

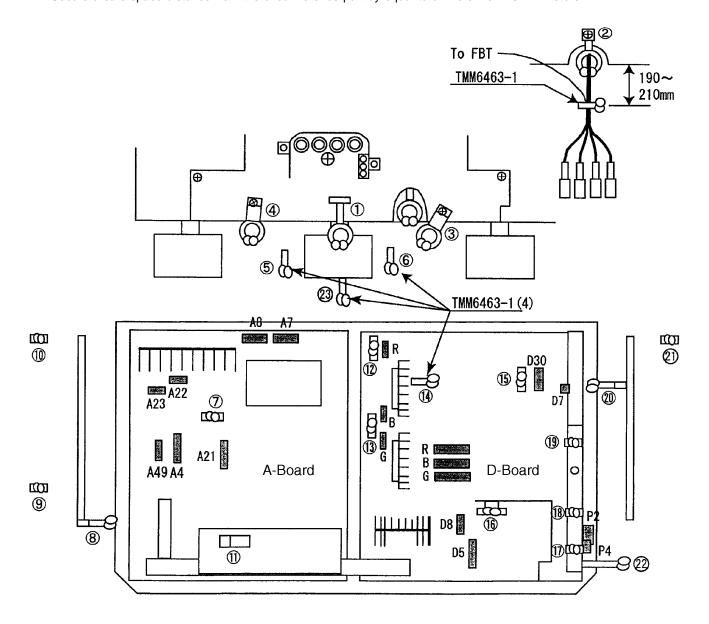
#### NOTICE FOR WORE DRESSING

- 1. Confirm that the lead line isn't hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
- 2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
- 3. It decides to be permitted to insert G, B of the DY lead in either.
- 4. Keep the Fo lead of B clear of components of the LB-Board and IC2301 heat sink of the A-Board.

## 11.5. Location of Lead Wiring (5)

#### The Anode Lead

- 1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).
- 2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.



#### **INSERTION OF CONNECTOR**

A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)

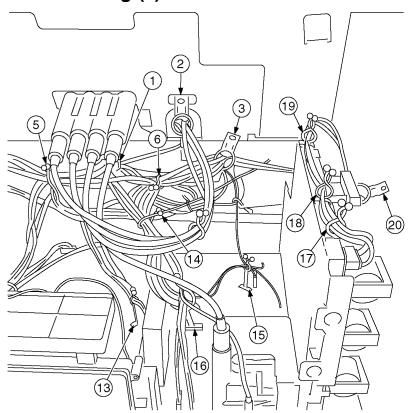
## CLAMP DOUBLE CLAMP: ©

WIRES CLAMPER	1	2	3	4	(5)	6	7	8	9	10	(1)	12	13	14)	(15)	16)	17	18	19	20	21)	22	23
A22~RSP							0	•	•	•													
B~DY			•			0																	
B~CY				0	0																		
G~DY						0																	
G~CY				0	0																		
R~DY						0																	
R~CY				0	0																		
D8~Distributor																							
G2~A49																							
A6~K2																							
A2~LB2, LG1, LR2							0																
A23~LSP							$\bigcirc$																
LG2~D5					0																		
FBT~Focus pack																							
D30~Focus pack																							,
K1~P2																							
Cabinet earth~P4																							
AC cord																							
G1~A7, H3							•																
D7~DG																							
						Α	 7 or	nly				H3	onl	y									

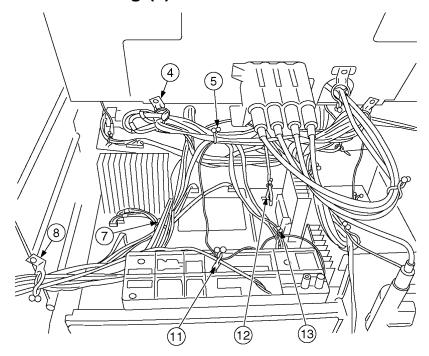
#### **NOTICE FOR WIRE DRESSING**

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

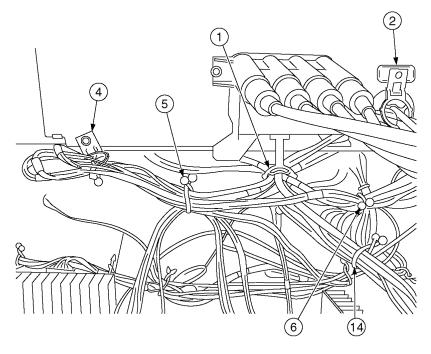
# 11.6. Location of Lead Wiring (6)



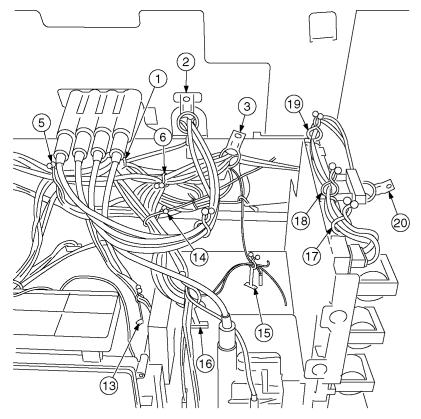
# 11.7. Location of Lead Wiring (7)



# 11.8. Location of Lead Wiring (8)



# 11.9. Location of Lead Wiring (9)



TX-47P800HQ / TX-47P800HZ

